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Ontario. Legislative Assembly.

SESSIONAL PAPERS

VOL. LVII.—PART IV.

SECOND SESSION

OF THE

SIXTEENTH LEGISLATURE

OF THE

PROVINCE OF ONTARIO

SESSION 1925

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1926

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CANADA

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No. 1 Public Accounts of the Province for the year ending October 31st, 1924. Presented to the Legislature, March 5th, 1925. *Printed.*

No. 2 Estimates—Supplementary for the service of the Province for the year ending October 31st, 1925. Presented to the Legislature, March 5th, 1925. *Printed.* Further Supplementary Estimates for the year ending October 31st, 1924. Presented to the Legislature, March 31st, 1925. *Printed.* Estimates for the year ending October 31st, 1926. Presented to the Legislature, April 6th, 1925. *Printed.*

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No. 3 Report of the Department of Lands and Forests, for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*

No. 4 Report of the Department of Mines for the year 1924. Presented to the Legislature, April 3rd, 1925. *Printed.*

No. 5 Report of the Inspector of Division Courts for the year 1924. Presented to the Legislature, March 19th, 1925. *Printed.*

No. 6 Report of the Inspector of Legal Offices. *Printed.*

No. 7 Report of the Inspector of Registry Offices for the year 1924. Presented to the Legislature, March 5th, 1925. *Printed.*

No. 8 Report of the Provincial Municipal Auditor for the year 1924. Presented to the Legislature, February 12th, 1925. *Printed with No. 43.*

No. 9 Report of the Queen Victoria Niagara Falls Park Commission. *Not Presented.*

No. 10 Report of the Superintendent of Insurance for the year 1924. Presented to the Legislature, April 1st, 1925. *Printed.*

No. 11 Report of the Registrar of Loan Corporations for the year 1924. Presented to the Legislature, April 1st, 1925. *Printed.*

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No. 14 Highway Improvement Fund, sums chargeable to. *Not Presented.*

No. 15 Report of the Department of Labour for the year 1924. Presented to the Legislature, March 6th, 1925. *Printed.*

No. 16 Report of the Department of Education for the year 1924. Presented to the Legislature, April 8th, 1925. *Printed.*

No. 17 Report of the Board of Governors of the University of Toronto for the year 1924. Presented to the Legislature, February 25th, 1925. *Printed.*

No. 18 Report of the Secretary and Registrar of the Province for the year 1924. Presented to the Legislature, April 2nd, 1925. *Not Presented.*

No. 19 Report upon Births, Marriages and Deaths for the year 1924. *Printed.*

No. 20 Report of the Provincial Board of Health for the year 1924. Presented to the Legislature, March 6th, 1925. *Printed.*

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No. 21 Report respecting Hospitals for Insane, Feeble-minded and Epileptic for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*

No. 22 Report of the Board of Parole for the year 1924. Presented to the Legislature, February 18th, 1925. *Printed.*

No. 23 Report respecting Hospitals and Charitable Institutions for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*

No. 24 Report respecting Prisons and Reformatories for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*

No. 25 Children, Neglected and Dependent, Report for the year 1924. Presented to the Legislature, 25th February, 1925. *Printed.*

No. 26 Report of the Board of License Commissioners on the operation of the Ontario Temperance Act for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*

No. 27	Report of the Department of Agriculture for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*
No. 28	Report of the Ontario Agricultural College and Experimental Farm for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*
No. 29	Report of the Agricultural and Experimental Union for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*
No. 30	Report of the Vegetable Growers' Association. *Printed for distrt-bution.*
No. 31	Report of the Entomological Society. *Printed for distribution.*
No. 32	Report of the Bee-Keepers' Association. *Printed for distribution.*
No. 33	Report of the Dairymen's Associations. *Printed for distribution.*
No. 34	Report of the Livestock Branch. *Printed for distribution.*
No. 35	Report of Municipal Affairs *re* Housing. *Not Presented.*
No. 36	Report of the Women's Institutes for the year 1924. Presented to the Legislature, April 9th, 1925. *Not bound in Sessionals.*
No. 37	Report of the Agricultural Societies, Fairs and Exhibitions. *Printed for distribution.*
No. 38	Report of the Horticultural Societies. *Printed for distribution.*
No. 39	Report of the Fruit Growers' Association. *Printed for dislribution.*
No. 40	Report of Statistics Branch of the Department of Agriculture for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*
No. 41	Report of the Temiskaming and Northern Ontario Railway Commission. *Printed.*
No. 42	Report of the Librarian on the State of the Library for the year 1924. Presented to the Legislature, February 12th, 1925. *Not Printed.*
No. 43	Report of the Ontario Railway and Municipal Board for the year 1924. Presented to the Legislature, April 9th, 1925. *Printed.*
No. 44	Return from the Records of the By-elections held in June and July, 1924. Presented to the Legislature, February 10th, 1925. *Printed.*
No. 45	Report on the Public Records and Archives for the year 1924. Presented to the Legislature, April 8th, 1925. *Not Printed.*

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No. 50 Return from the Records of the Plebiscite Vote held on October 23rd, 1924. Presented to the Legislature, March 13th, 1925. *Printed.*

No. 51 Copies of Regulations and Orders-in-Council under the authority of the Department of Education Act. Presented to the Legislature, February 11th and April 1st, 1925. *Not Printed.*

No. 52 Reports of Municipal Water Works and Gas Systems for 1924. Presented to the Legislature, February 12th, 1925. *Printed with Municipal Statistics.*

No. 53 Return to an Order of the House, dated April 11th, 1924, that there be laid before this House, a Return of all contracts between the Treasury Department and the Provincial Securities Company on the Browning and Harris Company of Hamilton for the purchase of outstanding bonds of the Province of Ontario. Presented to the Legislature, February 12th, 1925. *Mr. Raney. Not Printed.*

No. 54 Return to an Order of the House, of the 14th April, 1924, that there be laid before this House, a Return of copies of all correspondence in connection with the closing and opening of Whitefish Bay in the North Channel opposite Little Current during last ten years. Also, copy of Order-in-Council passed by the late Government dealing with this matter. Presented to the Legislature, February 12th, 1925. *Mr. Wallis. Not Printed.*

No. 55 Return to an Order of the House, of the 14th April, 1924, that there be laid before this House, a Return showing the total number of permanent and temporary civil servants on July 15th, 1923, in the pay of the Province. How many have since resigned. How many have since been dismissed or have requested to resign. How many permanent and temporary civil servants have been appointed since that date. Presented to the Legislature, February 12th, 1925. *Mr. Bragg. Not Printed.*

No. 56 Statement of the Legislative grants for the year 1924 paid to Rural, Public and Separate Schools in the Counties and Districts and

to Urban Public and Separate Schools in the Counties and Districts which in accordance with the provisions of the Amendment to the Schools Act passed in 1922 were classed as Rural Schools and received grants as such. Presented to the Legislature, February 12th, 1925. *Not Printed.*

No. 57 Return to an Order of the House, dated April 11th, 1924, that there be laid before this House, a Return, down to the date thereof, of:—(*a*) All correspondence between the Government or any Member thereof, and any person or organization favouring the submission to the electors of Ontario of a plebiscite, or referendum, on the Ontario Temperance Act or the liquor question and all resolutions or petitions received by the Government or any Member thereof favouring such a submission, and (*b*) all correspondence between the Government or any Member thereof and any person or organization opposing such a submission. Presented to the Legislature, February 13th, 1925. *Mr. Raney. Not Printed.*

No. 58 Report of the Ontario Athletic Commission for the year 1924. Presented to the Legislature, February 17th, 1925. *Not Printed.*

No. 59 Report of the Commissioner of Extra-mural Employment of Sentenced Persons' Act, 1924. Presented to the Legislature, February 18th, 1925. *Printed with No. 22.*

No. 60 Report under the Children's Protection Act and First Annual Report under the Adoption Act, 1921, and the Children of Unmarried Parents Act, 1921. Presented to the Legislature, February 25th, 1925. *See No. 25.*

No. 61 Report of the Public Service Superannuation Board for the year 1924. Presented to the Legislature, February 25th, 1925. *Not Printed.*

No. 62 Report on the Distribution of Revised and Sessional Statutes for the year 1924. Presented to the Legislature, February 25th, 1925. *Not Printed.*

No. 63 Report of the Minimum Wage Board for the year 1923. Presented to the Legislature, March 13th, 1925. *Printed.*

No. 64 Report of the Minimum Wage Board for the year 1924. Presented to the Legislature, March 13th, 1925. *Printed.*

No. 65 Return to an Order of the House, dated April 11th, 1924, That there be laid before this House, a Return of the following papers:—1. Agreement made in 1918 between the Government of Ontario and J. J. Carrick for extension of time to build mills under leases of Pic River and Black Sturgeon River Pulp Limits. 2. Copies of all subsequent agreements with reference to the said limits or mills between the Government of Ontario or the Hydro-

Electric Power Commission of Ontario and the Great Lakes Paper Company. 3. Copy of reasons of Hon. Mr. Justice Rose in the action of Attorney-General *versus* Great Lakes Paper Paper Company. 4. Copies of all correspondence on the files of the Government or on the files of the Hydro-Electric Power Commission in the said matters subsequent to the return to this Assembly made pursuant to an Order of the House of the 12th of March, 1920. 5. Copy of the report of the Hydro-Electric Commission of Enquiry on the Nipigon Power Development. Presented to the Legislature, March 16th, 1925. *Mr. Raney. Not Printed.*

No. 66 Report of the Agricultural Development Board for the year 1924. Presented to the Legislature, March 13th, 1925. *Printed.*

No. 67 Auditor's Report for the years 1923-24 prepared pursuant to provision of an Order-in-Council, dated October 28th, 1909. Presented to the Legislature, March 30th, 1925. *Not Printed.*

No. 68 Return to an Order of the House of the 6th March, 1925, for a Return showing all requests by the Minister of Highways under the Ontario Highways Act, 1924, 14 Geo. V, cap. 28, that the Highway Committee consult with him as to the administration of Acts of the Legislature respecting the construction, maintenance and operation of highways by municipal corporations or the Province, and for a Return of all recommendations and suggestions made by said Committee to the Minister in consequence of such requests for improvement and amendments in said Acts and the administration of the same, and for a Return showing all requests of the Minister that said Committee personally visit and inspect any highway or district through which it was proposed to construct, improve or extend any highway under any of said Acts and for a Return showing all reports of said Committee made to the Minister in consequence thereof. Presented to the Legislature, March 30th, 1925. *Mr. Mewhinney. Not Printed.*

No. 69 Report of the Mothers' Allowance Commission for the year 1923-24. Presented to the Legislature, March 31st, 1925. *Printed.*

No. 70 Report of the Civil Service Commissioner for the year 1924. Presented to the Legislature, April 7th, 1925. *Not Printed.*

No. 71 Report of the Commissioner of the Ontario Provincial Police for the year 1924. Presented to the Legislature, April 3rd, 1925. *Not Printed.*

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No. 73	Report of the Architect's Branch of the Public Works Department. Presented to the Legislature, April 8th, 1925. *Printed.*
No. 74	Return to an Order of the House of the 27th March, 1925, showing all correspondence passing between the solicitors of Alva Lindsay McBride, widow of Kenneth McBride, deceased, and the Department of Lands and Forests and between said Department and said solicitors regarding back pay due the said Kenneth McBride at his decease and compensation due the widow on account of said decease and all correspondence from other parties with said Department and by the said Department with other parties in relation to the same. Presented to the Legislature, April 9th, 1925. *Mr. Sinclair. Not Printed.*
No. 75	Return to an Order of the House of the 3rd day of April for a Return showing:—1. How many timber areas have been disposed of by the present Government down to the date hereof (*a*) by way of permit, (*b*) by way of addition to areas previously disposed of, (*c*) by way of sale or tender. 2. To whom were these areas disposed of. 3. What prices were received for the different kinds of wood and timber. 4. In how many of the above cases was there inserted in the contract a wage clause as provided by Resolution of this House adopted April 14th, 1924. Presented to the Legislature, April 9th, 1925. *Mr. Heenan. Not Printed.*

* Pt. VI here published (Later) Feb. 25/26
from Ontario, Clerk's Office, Leg. Assembly

Fifty-Seventh Annual Report

OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES

UPON THE

Hospitals for the Insane Feeble-minded and Epileptic

OF THE

PROVINCE OF ONTARIO

Being for the Year ended 31st October

1924

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

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INTRODUCTION

The Fifty-seventh Annual Report of the Ontario Hospitals for the Insane, Feeble-minded and Epileptics, deals, as might be expected, largely with the statistical features of this work. It must be kept in mind, however, that a survey of statistics alone leaves the reader with a limited, if not erroneous, opinion of the existing facts. We propose therefore to present, not only the figures, but to call attention to certain facts as have a social and national significance.

In Ontario we have twelve institutions, all in the older and settled portions of the Province, devoted to the custody and treatment of the mentally abnormal population, and it is quite in order to state here that every one of them is full and overcrowded with more on the waiting list than will fill another hospital, and that this condition of affairs will likely become more intensified unless vigorous means are taken to prevent the spread of mental diseases by dealing with their causes.

We started the year on November 1st, 1923, with a resident population of 8,771, with 920 applications on file and with 52 insane in the Guelph Sanitarium, a total of 9,743 persons of whom we have official knowledge. We finished the year on October 31st, 1924, with a resident list of 9,144, with 1,077 applications on record and with 39 insane in Guelph Sanitarium, total 10,260. These figures show that the institution population of insane increased in one year by 517, or 5 1-3 per cent. If the ordinary population increased by the same percentage our numbers would increase over 50 per cent. in a decade; but the provincial increase is only about 17½ per cent. in ten years instead of 50 per cent.

It is apparent, therefore, that the insane population of Ontario is increasing about three times as rapidly as the normal population. Evidently we cannot ignore this fact or attempt to minimize its importance, and the sooner we take stock of the causes and remove them the sooner we shall be able to arrest the onward march of insanity, idiocy and mental abnormality that, like a scourge, is now sweeping over the world. Possibly much of this is due to a post-bellum condition—the breaking down of standards of life and conduct that make for a virility of mind and body and the substitution therefor of an enervated and erotic outlook on life that breeds indifference and irresponsibility.

It may be pertinent here to ask the question—Is it possible to prevent the scourge of increasing insanity? It is quite evident that the building of large public institutions is not the true remedy. That has been tried for fifty-seven years and a building is filled as soon as it is completed, but we have not cured the insane therein or thereout in anything like the degree of increase.

The erection of a Hospital for the Insane is at best but a temporary expedient. Insanity and its accompaniments, idiocy and epilepsy, may be likened to a river, not of life, but of destruction, rushing to its doom as it is swept over the brink. Niagara River may be controlled as it leaves Lake Erie. It cannot be controlled when it reaches the cataract, and the mental cataract is usually reached before the individual arrives at the hospital. Every alienist in the

land knows this to be true and some of them are crying out against the continuance of present methods. If insanity is ever to be kept under provincial or national control there must be co-operation of all the agencies in our midst—State, School, Church and Home.

Education will most certainly be necessary, but it must be an education that teaches boys and girls, men and women, how to live wisely and avoid those causes that will only result later in mental and moral collapse. Medical education must take the form of wise prevention instead of experimental therapeutics. And it is encouraging to know that this changing viewpoint has already become the objective.

It cannot be urged that the statistics given represent only present conditions and that the future has a more hopeful prospect. Similar conditions have existed during the last three decades. Neither can it be claimed that Ontario is in a more deplorable condition than any other part of the Empire. An aroused public opinion that has an intelligent apprehension of what we are and where we are to-day may be a factor in deciding what we shall be in another generation. This can only be accomplished by the united co-operation of all the agencies in our midst—State, School, Church and Home.

H. M. Robbins,
Deputy Provincial Secretary.

A. L. McPherson,
Inspector.

TABLE

Showing the movement of the Hospital population

	Brockville Hospital			Cobourg Hospital
	Male	Female	Total	Female
Capacity of Hospital	402	398	800	450
In Residence, October 31st, 1923	418	409	827	395
Admitted during year 1924:				
By Warrant	.....	.....	.....	1
By Medical Certificate	104	108	212	17
Voluntary	.....	.....	.....	.....
Total number under treatment during year	522	517	1,039	413
Discharges during year:				
As recovered	17	46	63	.....
As improved	50	26	76	13
As unimproved	3	1	4	.....
As not insane	.....	.....	.....	.....
Total number discharged during year	70	73	143	13
Died	41	20	61	18
Deported	2	.....	2	.....
Eloped	6	.....	6	.....
Transferred	.....	2	2	1
Total number admitted since opening of Hospital	2,478	2,413	4,891	581
Total number discharged since opening of Hospital	1,067	1,101	2,168	69
Total number died since opening of Hospital	840	720	1,560	94
Total number deported since opening of Hospital	22	12	34	2
Total number eloped since opening of Hospital	116	2	118	.....
Total number transferred since opening of Hospital	30	156	186	35
Total number remaining in Hospital, October 31st, 1924	403	422	825	381
Number of applications on file	9	15	24	.....
Daily average population	417.6	416.8	834.4	383.8
Collective days' stay of all patients in residence during year	152,432	152,155	304,587	140,087

No. 1.

for the year ending October 31st, 1924.

Hamilton Hospital.			Kingston Hospital.			London Hospital.		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
656	639	1,295	311	268	579	590	596	1,186
650	643	1,293	300	284	584	658	672	1,330
81	45	126	1	1	2	47	9	56
70	120	190	56	51	107	118	152	270
1	2	3	.....	.....	.....	16	4	20
802	810	1,612	357	336	693	839	837	1,676
6	4	10	17	12	29	52	44	96
35	78	113	21	33	54	43	40	83
1	.....	1	1	3	4	1	5	6
.....	.....	.....	.....	.....	.....	.....	.....	.....
42	82	124	39	48	87	96	89	185
49	56	105	18	21	39	52	52	104
7	2	9	.....	.....	.....	4	2	6
3	1	4	.....	.....	.....	1	.....	1
26	28	54	3	.....	3	.....	25	25
4,771	4,637	9,408	3,516	2,946	6,462	5,147	4,853	10,000
1,870	2,111	3,981	1,729	1,485	3,214	2,298	2,251	4,549
1,640	1,458	3,098	1,102	881	1,983	1,718	1,568	3,286
98	16	114	17	6	23	26	12	38
171	12	183	125	1	126	169	18	187
317	399	716	246	306	552	250	335	585
675	641	1,316	297	267	564	686	669	1,355
4	5	9	.....	4	4	.....	.....	.....
673	655	1,238	288.52	274.54	563.06	661	656	1,317
246,449	239,630	486,079	105,603	100,480	206,083	242,101	240,114	482,215

TABLE

Showing the movement of the Hospital population

	Mimico Hospital.			Penetang Hospital.		
	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	300	300	600	166	203	369
In Residence, October 31st, 1923	304	304	608	152	180	332
Admitted during year 1924:						
By Warrant	31	20	51	*20	18	38
By Medical Certificate	29	40	69	.....	1	1
Voluntary	.....	.....	.....	.....	.....	.....
Total number under treatment during year	364	364	728	170	201	371
Discharges during year:						
As recovered	11	25	36	.....	.....	.....
As improved	5	5	10	.....	1	1
As unimproved	2	1	3	.....	1	1
As not insane	.....	.....	.....	.....	.....	.....
Total number discharged during year.	18	31	49	.....	2	2
Died	10	19	29	5	7	12
Deported	3	.....	3	.....	.....	.....
Eloped	4	.....	4	.....	.....	.....
Transferred	20	22	42	5	9	14
Total number admitted since opening of Hospital	2,482	2,210	4,692	380	451	831
Total number discharged since opening of Hospital	875	788	1,663	22	25	47
Total number died since opening of Hospital	767	641	1,408	153	200	353
Total number deported since opening of Hospital	59	11	70	10	1	11
Total number eloped since opening of Hospital	67	1	68	18	3	21
Total number transferred since opening of Hospital	405	477	882	12	30	42
Total number remaining in Hospital, October 31st, 1924	309	292	601	165	192	357
Number of applications on file	20	8	28	.....	.....	.....
Daily average population	312.53	300.92	613.45	153.6	179.5	333.1
Collective days' stay of all patients in residence during year	114,074	109,837	223,911	56,217	65,723	121,940

* Transfers.

No. 1—*Continued.*

for the year ending October 31st, 1924.

Toronto Hospital			Whitby Hospital.			Orillia Hospital.		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
350	450	800	676	618	1,294	536	563	1,099
346	441	787	580	525	1,105	616	595	1,211
			†34	†14	†48			
110	28	138	37	41	78	3	.....	3
			*71	*100	*171			
181	188	369	78	79	157	75	64	139
.....	.....	.....	.....	.....	.....	.....	.....	.....
637	657	1,294	800	759	1,559	694	659	1,353
37	52	89	29	38	67	.....	.....	.....
60	57	117	24	17	41	18	10	28
15	9	24	4	2	6	7	4	11
2	.....	2	3	1	4	.....	.....	.....
114	118	232	59	59	118	25	14	39
59	48	107	43	26	69	25	26	51
26	14	40	2	.....	2	.....	.....	.....
29	.....	29	10	1	11	9	.....	9
41	44	85	3	6	9	.....	.....	.....
8,635	8,376	17,011	1,001	942	1,943	2,085	1,848	3,933
4,053	4,392	8,445	161	179	340	289	165	454
2,351	1,882	4,233	115	80	195	1,033	891	1,924
189	92	281	8	1	9	2	3	5
217	37	254	29	4	33	70	4	74
1,437	1,540	2,977	3	6	9	56	166	222
388	433	821	685	672	1,357	635	619	1,254
12	7	19	4	6	10	.....	.....	983
358	419	777	590	555	1,145	606	595	1,201
130,670	152,935	283,605	215,350	202,575	417,925	221,959	217,701	439,660

† Voluntary.

TABLE No. 1—*Continued.*

Showing the movement of the Hospital population for the year ending October 31st, 1924.

	Woodstock Hospital.			Guelph Hospital.	Gross Totals.
	Male.	Female.	Total.	Male.	
Capacity of Hospital	101	112	213	100	.....
In Residence, October 31st, 1923	95	111	206	91	8,769
Admitted during year 1924:					
By Warrant	.....	.....	.....	9	†86 464 *171
By Medical Certificate	17	13	30	3	1,564
Voluntary	.....	.....	.....	.....	23
Total number under treatment during year	112	124	236	103	11,077
Discharges during year:					
As recovered	.....	.....	.....	.....	390
As improved	3	4	7	.....	543
As unimproved	2	5	7	.....	67
As not insane	.....	.....	.....	1	7
Total number discharged during year.	5	9	14	1	1,007
Died	6	4	10	1	606
Deported	.....	.....	.....	.....	62
Eloped	.....	.....	.....	.....	64
Transferred	.....	.....	.....	.....	235
Total number admitted since opening of Hospital	442	356	798	116	60,666
Total number discharged since opening of Hospital	180	124	304	3	25,237
Total number died since opening of Hospital	161	121	282	9	18,425
Total number deported since opening of Hospital	.....	.....	.....	3	590
Total number eloped since opening of Hospital	.....	.....	.....	.....	1,064
Total number transferred since opening of Hospital	.....	.....	.....	.....	6,206
Total number remaining in Hospital, October 31st, 1924	101	111	212	101	9,144
Number of application on file	.....	.....	.....	.....	1,077
Daily average population	99.035	109.497	208.532	96	.....
Collective days' stay of all patients in residence during year	36,247	40,075	76,322	36,237	.....

* Transfers. † Voluntary.

TABLE No. 2.

Showing social state of patients admitted during the year.

	Admissions during 1924.
SOCIAL STATE—	
Single	1,140
Married	951
Widowed	206
Divorced	5
Separated	3
Unascertained	3
Totals	2,308
RELIGION—	
Baptists	102
Congregationalists	9
Church of England	459
Methodists	439
Presbyterians	376
Roman Catholics	508
Other Denominations	272
Unascertained	143
Totals	2,308

TABLE No. 3.

Showing nativity of patients admitted during the year.

Nativity.	Admissions of Year.
Total born in Canada	1,556
Armenia	2
Assyria	1
Austria	18
Australia	1
Belgium	2
Bulgaria	2
China	2
Denmark	1
England	321
France	13
Finland	16
Galicia	2
Germany	5
Greece	4
Holland	...
Hungary	3
Ireland	93
Italy	17
Japan	...
Macedonia	1
Norway	1
Other British Possessions	9
Poland	9
Roumania	10
Russia	55
Scotland	92
South America	2
Spain	...
Switzerland	1
Sweden	2
Turkey	...
United States	53
West Indies	...
Unascertained and other countries	14
Totals	2,308

TABLE No. 4.

Showing occupation of those admitted during the year.

Occupation.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetanguishene Hospital.	Toronto Hospital.	Whitby Hospital.	Orillia Hospital.	Woodstock Hospital.	Guelph Hospital.	Admitted this year.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc	8	...	3	1	5	5	...	4	7	...	...	...	33
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	25	2	23	7	15	...	...	38	63	...	3	1	177
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc	25	...	37	19	63	23	5	27	33	...	...	1	233
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	8	...	21	1	11	4	5	30	33	...	1	5	119
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	8	2	21	5	15	4	...	20	25	...	1	...	101
Domestic Service:— Waiters, Cooks, Servants, etc	8	1	11	5	5	...	6	34	26	1	...	...	97
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc	83	9	116	52	130	53	11	137	164	...	9	1	765
Miners, Marine Engineers, Railway Employees, Seamen, etc	1	...	3	...	8	3	1	...	4	...	...	...	20
Labourers	29	...	52	10	48	21	6	154	58	...	6	4	388
No Occupation	17	2	31	6	25	7	5	56	32	141	10	...	332
Unascertained	...	2	1	2	21	...	...	...	9	...	...	...	35
Soldiers and Naval Service	...	...	...	1	...	...	...	7	...	...	...	...	8
Totals	212	18	319	109	346	120	39	507	454	142	30	12	2,308

TABLE No. 5.

Showing the Counties and Districts from which patients have been admitted during the year ending October 31st, 1924, and the Hospitals they were assigned to.

Counties and Districts	Admitted during Year.	No. received under warrant process.	No. received by med. certificates.	Assigned to Brockville Hosp.	Assigned to Cobourg Hosp.	Assigned to Hamilton Hosp.	Assigned to Kingston Hosp.	Assigned to London Hosp.	Assigned to Mimico Hosp.	Assigned to Penetang Hosp.	Assigned to Toronto Hosp.	Assigned to Whitby Hosp.	Assigned to Orillia Hosp.	Assigned to Woodstock Hosp.	Assigned to Guelph
Algoma District	31	19	12	....	....	....	....	....	8	2	15	5	....	1	..
Brant	23	9	14	....	....	19	....	....	....	....	....	3	1	....	..
Bruce	22	6	16	....	....	....	....	17	....	....	1	1	3	....	..
Carleton	111	....	111	94	1	....	....	....	....	....	....	5	7	4	..
Dufferin	13	5	8	....	....	3	4	....	....	....	....	5	1	....	..
Dundas	13	....	13	13	....	....	....	....	....	....	....	....	....	....	..
Durham	19	....	19	....	4	....	....	....	....	1	1	11	1	1	..
Elgin	28	....	28	....	....	....	....	24	....	....	....	1	3	....	..
Essex	80	15	65	....	....	....	....	76	....	....	....	1	2	1	..
Frontenac	42	1	41	....	....	....	35	....	....	....	....	4	2	1	..
Glengarry	11	....	11	10	....	....	....	....	....	....	....	....	1	....	..
Grenville	17	....	17	15	....	....	....	....	....	....	1	....	1	....	..
Grey	28	9	19	....	....	23	....	....	....	....	1	2	1	1	..
Haldimand	10	5	5	....	....	7	....	....	....	....	....	3	....	....	..
Haliburton	2	....	2	....	....	....	....	....	....	....	1	....	1	....	..
Halton	12	2	10	....	....	7	....	....	....	....	....	4	1	....	..
Hastings	28	....	28	....	....	....	22	....	1	....	1	1	2	1	..
Huron	25	6	19	....	....	....	....	20	....	....	....	4	1	....	..
Kenora	6	3	3	....	....	....	....	....	3	2	....	1	....	....	..
Kent	26	9	17	....	....	....	....	23	....	....	....	2	....	1	..
Lambton	35	4	31	....	....	....	....	30	....	....	....	3	1	1	..
Lanark	20	....	20	18	....	....	2	....	....	....	....	....	....	....	..
Leeds	29	....	29	26	....	....	1	....	....	....	....	1	1	....	..
Lennox and Addington	13	1	12	....	....	....	13	....	....	....	....	....	....	....	..
Lincoln	33	5	28	....	....	25	....	....	....	....	1	4	3	....	..
Manitoulin	3	3	....	....	....	....	....	....	1	....	2	....	....	....	..
Middlesex	121	17	104	....	....	....	....	105	1	....	....	10	4	1	..
Muskoka District	11	3	8	....	....	....	....	....	5	....	1	4	1	....	..
Nipissing District	30	24	6	....	....	....	....	....	9	1	11	8	....	....	1
Norfolk	10	4	6	....	....	9	....	1	....	....	....	....	....	....	..
Northumberland	16	2	14	....	6	....	4	....	....	....	....	4	2	....	..
Ontario	56	5	51	....	....	....	....	....	4	1	1	46	4	....	..
Oxford	35	5	30	....	....	1	....	28	....	....	....	2	4	....	..
Parry Sound District	17	1	16	....	....	....	....	1	6	1	2	6	1	....	..
Peel	17	4	13	....	....	....	....	....	6	....	4	4	2	....	1
Perth	25	4	21	....	....	....	....	20	1	1	....	3	....	....	..
Peterborough	20	6	14	....	7	....	1	1	1	2	....	8	....	....	..
Prescott	10	....	10	8	....	....	....	....	....	....	....	....	2	....	..
Prince Edward	5	....	5	....	....	....	5	....	....	....	....	....	....	....	..
Rainy River District	11	10	1	....	....	....	....	....	4	....	4	2	1	....	..
Renfrew	21	....	21	1	....	....	15	....	....	....	....	....	4	1	..
Russell	10	....	10	7	....	....	....	....	....	....	....	....	3	....	..
Simcoe	50	12	38	....	....	2	....	....	26	5	7	5	3	....	2
Stormont	17	....	17	15	....	....	1	....	....	....	....	....	1	....	..
Sudbury	18	9	9	....	....	....	....	....	8	2	6	2	....	....	..
Temiskaming	34	26	8	1	....	....	....	....	17	3	6	6	1	....	..
Thunder Bay District	38	26	12	....	....	....	....	....	13	5	9	6	5	....	..
Victoria	26	17	9	....	....	....	1	....	3	1	1	20	....	....	..
Waterloo	36	10	26	....	....	24	....	....	....	....	....	6	3	2	1
Welland	35	4	31	....	....	30	....	....	....	....	....	4	1	....	..
Wellington	33	16	17	....	....	27	....	....	....	....	....	4	2	....	..
Wentworth	163	81	82	....	....	137	....	....	....	....	2	14	7	3	..
York	745	122	623	1	....	4	....	....	3	11	428	226	58	11	3
Unascertained	6	....	6	....	....	....	4	....	....	1	....	1	....	....	..
Other Provinces	12	3	9	3	....	1	1	....	....	....	1	2	....	....	4
Total	2308	513	1795	212	18	319	109	346	120	39	507	454	142	30	12

TABLE No. 5a.

Showing the Counties and Districts from which the entire number of patients admitted to the Hospitals have been received; also the Counties and Districts from which the patients remaining in residence the 31st October, 1924, were originally admitted.

Counties and Districts	Patients in residence 31st October, 1924												Total.
	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Whitby Hospital.	Orillia.	Woodstock.	Guelph.	
Algoma District	....	2	.....	....	3	29	28	20	19	10	1	3	115
Brant	....	4	109	....	7	1	1	1	5	19	5	3	155
Bruce	....	4	3	....	110	....	2	1	1	14	3	3	141
Carleton	286	20	2	24	.....	1	3	....	3	44	7	....	390
Dufferin	....	6	23	20	1	1	2	1	5	7	2	....	68
Dundas	25	1	1	2	.....	2	....	....	.....	6	3	....	40
Durham	2	15	1	8	1	5	1	1	23	12	2	1	72
Elgin	....	5	1	....	89	....	2	....	1	18	6	....	122
Essex	2	7	3	....	189	....	....	1	1	20	8	....	231
Frontenac	10	3	.....	103	.....	....	3	1	5	24	1	3	153
Glengarry	31	2	1	5	.....	....	....	....	1	5	....	....	45
Grenville	45	4	.....	2	.....	....	....	1	.....	4	....	....	56
Grey	....	11	110	1	8	5	7	1	4	16	9	2	174
Haldimand	1	2	38	....	.....	1	1	....	3	4	....	....	50
Haliburton	....	2	.....	1	.....	2	....	1	.....	5	....	....	11
Halton	1	5	37	....	1	1	....	1	5	1	1	....	53
Hastings	5	4	.....	105	.....	2	3	....	5	36	6	....	166
Huron	2	1	2	....	123	....	2	3	7	15	4	....	159
Kenora	....	....	1	....	.....	5	2	1	3	.....	....	2	14
Kent	1	5	....	....	110	....	....	....	2	8	5	1	132
Lambton	3	3	2	2	123	....	1	....	2	11	7	1	155
Lanark	77	5	.....	10	.....	....	1	....	.....	9	1	....	103
Leeds	98	8	.....	13	.....	....	....	1	1	9	2	1	133
Lennox and Addington	2	1	.....	46	.....	....	2	....	.....	15	....	....	66
Lincoln	....	3	67	....	.....	....	....	1	6	15	5	1	98
Manitoulin	....	....	....	....	.....	7	....	3	2	1	1	....	14
Middlesex	2	22	.....	1	330	3	2	1	13	41	11	5	431
Muskoka District	....	....	2	....	.....	13	13	2	8	13	1	1	53
Nipissing District	1	1	3	....	.....	46	18	13	9	13	....	1	105
Norfolk	....	....	48	1	1	....	2	....	.....	8	1	....	61
Northumberland	3	18	2	59	.....	2	6	2	10	17	3	3	125
Ontario	....	4	2	2	.....	29	17	5	68	36	3	4	170
Oxford	1	2	5	....	107	1	2	1	4	26	7	1	157
Parry Sound District	....	....	....	....	1	28	11	8	12	14	....	4	78
Peel	1	2	4	1	.....	43	3	11	8	16	2	1	92
Perth	3	8	5	....	110	2	1	....	3	13	3	1	149
Peterborough	1	21	.....	8	.....	39	7	4	23	17	....	1	121
Prescott	68	6	.....	3	.....	....	2	....	.....	13	....	1	93
Prince Edward	....	....	.....	34	.....	1	....	1	1	10	....	....	47
Rainy River District	....	....	.....	....	.....	10	7	3	4	4	....	....	28
Renfrew	9	3	.....	81	.....	....	2	1	1	18	5	....	120
Russell	52	....	1	1	.....	....	....	....	.....	9	1	....	64
Simcoe	3	11	13	....	1	107	46	8	23	58	5	3	278
Stormont	62	7	.....	3	.....	....	1	....	1	6	....	1	81
Sudbury	....	....	....	....	.....	19	3	9	4	12	....	....	47
Temiskaming	3	2	1	....	.....	27	16	8	16	8	....	....	81
Thunder Bay District	....	3	2	1	2	42	6	14	18	8	2	4	102
Victoria	....	8	2	4	.....	40	11	3	30	11	2	....	111
Waterloo	....	7	136	....	1	1	1	1	11	22	6	5	191
Welland	1	8	111	2	.....	1	1	....	5	8	1	1	139
Wellington	1	18	109	....	1	1	4	....	11	24	3	3	175
Wentworth	3	12	436	4	3	2	7	7	15	68	13	5	575
York	16	93	23	12	3	81	88	679	939	427	62	13	2,436
Unascertained	....	2	4	4	28	....	19	....	6	6	....	....	69
Other Provinces	4	....	6	1	2	1	....	1	10	.....	2	22	49
Totals	825	381	1,316	564	1,355	601	357	821	1,357	1,254	212	101	9,144

TABLE No. 6.

Showing the assigned causes of insanity in the cases admitted during the year.

Causes.	Men.	Women.	Total.	Inherited Predisposition.			Unascertained.
				Men.	Women.	Total.	
MORAL							
Adverse conditions (such as loss of friends, business troubles, etc.)	46	66	112	14	27	41	64
Mental strain, worry and overwork (not included in above)	80	116	196	23	46	69	92
Religious excitement	7	13	20	1	7	8	11
Love affairs, including seduction	6	14	20	3	4	7	10
Fright and nervous shock	13	14	27	4	7	11	10
PHYSICAL							
Alcoholism	59	3	62	13	.....	13	24
Sexual excess	1	.....	1	.....	.....	.....	1
Venereal diseases	82	21	103	4	4	8	44
Masturbation	13	1	14	3	.....	3	7
Insolation	3	3	6	1	2	3	4
Accident or injury	7	5	12	3	2	5	6
Pregnancy	.....	7	7	.....	5	5	2
Parturition and puerperium	.....	33	33	.....	8	8	19
Lactation	.....	.....	.....	.....	.....	.....	.....
Climacteric period	.....	41	41	.....	18	18	23
Fevers	4	4	8	.....	2	2	6
Privation and overwork	13	20	33	3	6	9	24
Epilepsy	35	18	53	7	4	11	27
Other convulsive diseases	2	.....	2	.....	.....	.....	2
Diseases of brain and skull	196	162	358	.....	3	3	8
Senility	92	101	193	15	14	29	57
Exophthalmic goitre	.....	1	1	.....	1	1	.....
Epidemic influenza	5	2	7	2	1	3	4
Abuse of drugs	13	7	20	.....	.....	.....	15
Loss of special sense	.....	.....	.....	.....	.....	.....	.....
Uræmia	1	1	2	.....	.....	.....	2
Other auto-infection	4	.....	4	1	.....	1	2
Other bodily diseases	31	48	79	7	12	19	46
HEREDITARY							
Congenital defect	66	65	131	31	32	63	18
Unascertained	325	288	613	368	284	652	342
Not insane	8	.....	8	2	.....	2	4
Totals	1,112	1,054	2,166	505	489	994	874

Orillia not included.

TABLE No. 7.

Showing hereditary tendency to insanity in patients admitted during the year.

	Admitted During Year.		
	Male	Female	Total
Paternal Branch	98	96	194
Maternal Branch	86	108	194
Paternal and Maternal Branches	13	24	37
Collateral Branches	66	76	142
No hereditary tendency	397	411	808
Unascertained	530	403	933
Not insane	....	....	....
Totals	1,190	1,118	2,308

TABLE No. 8.

Showing summary of probational discharges during the year.

	Male	Female	Total
Number Granted Probational Discharge	513	648	1,161
Discharged, Recovered while on Probation	119	144	263
Discharged, Improved while on Probation	143	167	310
Discharged, Unimproved while on Probation	9	11	20
Died while on Probation	3	3	6
Returned to Hospital	164	179	343
Not insane	....	....	....
Absent on Probation on October 31st, 1924	115	136	251

TABLE No. 9.

Showing daily average population, admissions, recoveries, deaths, and percentage of recoveries for year ending October 31st, 1924

Hospitals	Daily Average Population tion	Admissions	Recoveries	Deaths	Percentage of Recoveries		Percentage of Deaths
					On admissions	On average daily population	
Brockville	834	212	63	61	29.24	7.55	7.31
Cobourg	384	18	.....	18	.....	.....	4.69
Hamilton	1,328	319	10	105	3.13	.75	7.91
Kingston	563	109	29	39	26.60	5.15	6.93
London	1,317	346	96	104	27.74	7.29	7.90
Mimico	613	120	36	29	30.00	5.87	4.73
Penetang	331	39	.....	12	.....	.....	3.63
Toronto	777	507	89	107	17.55	11.45	13.77
Whitby	1,145	454	67	69	14.76	5.85	6.03
Orillia	1,201	142	.....	51	.....	.....	4.24
Woodstock	209	30	.....	10	.....	.....	4.78
Guelph	96	12	.....	1	.....	.....	1.04
Totals	8,798	2,308	390	606	12.56	4.43	6.89

TABLE No. 10.

Showing general movements and result of treatment of patients in Hospitals for Insane in Province from January 1st, 1882, to October 31st, 1924.

	Average daily population.			Number of patients admitted.			Number of patients recovered.			Number discharged improved, unimproved and deported.			Number of patients who died.			Percentage of recoveries to average daily population.			Percentage of deaths to average daily population.			Number of patients remaining in residence		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Average 1882 to 1891	1,449	1,431	2,880	289	270	559	85	86	171	37	43	80	90	73	163	5.90	6.21	6.05	6.25	5.08	5.66	1,464	1,524	2,988
Average 1892 to 1901	2,034	2,094	4,128	371	386	757	114	121	235	42	50	92	134	107	241	5.60	5.77	5.69	6.39	5.06	5.72	2,042	2,109	4,152
Average 1902 to 1911	2,484	2,702	5,186	499	527	1,026	140	154	294	90	88	178	169	160	329	5.65	5.74	5.70	6.68	5.88	6.28	2,499	2,726	5,225
Average 1912 to 1921	2,992	3,161	6,153	824	818	1,642	174	172	346	198	194	392	274	248	522	5.83	5.47	5.68	8.92	7.90	8.42	3,200	3,408	6,608
1922.....	3,874	4,167	8,041	1,030	1,203	2,133	187	167	354	266	306	572	294	303	597	4.88	4.01	4.40	7.73	7.15	7.43	4,009	4,355	8,364
1923.....	4,065	4,387	8,453	1,165	1,101	2,266	219	191	410	298	283	581	339	309	648	5.39	4.35	4.87	8.31	7.07	7.69	4,213	4,558	8,771
1924.....	4,255	4,545	8,800	1,192	1,116	2,308	169	221	390	339	333	672	309	297	606	3.97	4.86	4.43	7.26	6.53	6.89	4,445	4,699	9,144

TABLE No. 11.

Showing the causes of death of patients who died during the year ending October 31st, 1924.

Cause of Death.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Orillia Hospital.	Penetang Hospital.	Toronto Hospital.	Whitby Hospital.	Woodstock Hospital.	Guelph Hospital.	Total.
Specific Infectious Diseases:—													
Typhoid Fever	...	...	...	...	...	...	4	...	...	...	...	...	4
Influenza	...	4	...	...	...	...	...	...	...	...	...	...	4
Cerebro-spinal Meningitis	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria	...	...	...	...	...	...	1	...	...	...	...	...	1
Erysipelas	...	...	...	...	1	...	...	...	...	...	...	...	1
Septicæmia	...	...	3	1	2	...	...	...	1	1	...	...	8
Dysentery	...	...	...	...	2	...	7	...	...	...	...	...	9
Syphilis	...	...	1	1	...	...	...	...	...	...	...	...	2
Tuberculosis	12	4	1	8	3	4	12	2	4	9	...	...	59
Toxemia	...	...	...	...	...	...	...	...	...	...	...	...	...
Jaundice	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Infections	...	...	...	...	...	...	4	...	...	...	...	...	4
Constitutional Diseases:—													
Rheumatism	...	...	...	...	...	...	...	...	...	...	...	...	...
Arthritis Deformans	...	...	...	...	...	...	...	...	...	...	...	...	...
Diabetes Mellitus	...	...	...	...	...	...	...	...	1	...	...	...	1
Diseases of the Digestive System:—													
Mouth, salivary glands	...	...	...	...	...	...	...	...	...	...	...	...	...
Pharynx	...	...	...	...	...	...	...	...	...	...	...	...	...
Tonsils	...	...	...	...	...	...	...	...	...	...	...	...	...
Œsophagus	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteritis	...	...	...	...	...	...	...	...	...	...	...	...	...
Stomach	...	...	...	...	...	...	...	...	...	...	...	...	...
Diseases of the Intestines:—													
Diseases of the Liver	...	...	...	...	3	...	...	...	...	...	...	...	3
" " Pancreas	...	...	...	...	...	...	...	...	...	1	...	...	1
" " Peritoneum	...	...	3	2	...	...	2	1	...	1	...	...	9
Intestinal Obstruction	...	...	1	...	...	...	...	...	...	...	...	...	1
Enteritis	...	...	4	...	...	...	...	...	...	...	...	...	4
Colitis	...	...	2	...	...	...	...	...	...	...	...	...	2
Diseases of the Respiratory System:—													
Diseases of the Nose and Larynx	...	...	...	...	...	...	...	...	...	...	...	...	...
" " Bronchi	3	...	...	1	...	...	...	...	...	...	...	...	4
" " Lungs	7	2	10	5	11	5	6	3	1	7	...	...	57
" " Pleura	...	...	...	...	...	...	...	...	2	...	...	...	2
Diseases of the Circulatory System:—													
Diseases of the Pericardium	1	...	...	...	...	...	...	...	...	...	...	...	1
" " Heart	7	1	12	3	8	2	4	...	5	1	2	...	45
Arterio-sclerosis	1	2	4	1	10	2	...	3	13	7	...	...	43
Aneurism	...	...	...	...	...	...	...	...	...	...	...	...	...
Diseases of the Blood and Ductless Glands:													
Anæmia	...	...	...	...	...	...	...	1	...	...	...	...	1
Pernicious Anæmia	1	...	...	...	2	...	...	...	...	1	...	...	4
Leucæmia	...	...	...	...	...	...	...	...	...	...	...	...	...
Exophthalmic Goitre	...	...	...	...	...	...	...	1	...	...	...	...	1
Carried forward	32	13	41	22	42	13	40	11	27	28	2	...	271

TABLE No. 11—*Continued.*

Showing the causes of death of patients who died during the year ending October 31st, 1924.

Cause of Death.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Orillia Hospital.	Penetang Hospital.	Toronto Hospital.	Whitby Hospital.	Woodstock Hospital.	Guelph Hospital.	Total.
Totals—Brought forward	32	13	41	22	42	13	40	11	27	28	2	...	271
Diseases of the Genito-Urinary System	1	...	2	1	1	3	...	...	1	3	1	...	13
Diseases of the Nervous System:—													
Diseases of the Nerves	...	...	...	...	...	...	...	...	...	...	...	...	...
" " Spinal Cord	...	...	...	...	...	...	1	...	...	...	...	...	1
" " Meninges	...	...	...	...	...	...	1	...	...	1	...	...	2
Organic Diseases of the Brain,— (Tumor, Abscess, Embolism, Thrombosis, Hemorrhage, and other gross lesions)	3	1	1	3	7	2	...	...	6	3	...	...	26
Functional Nervous Diseases,— (Paralysis Agitans, Chorea, Eclampsia, Hysteria)	1	...	...	...	...	...	...	...	1	...	...	...	2
Epilepsy	4	1	4	1	3	2	7	...	1	...	6	1	30
Mental Diseases:—													
Exhaustion of Acute Mental Disease	3	...	4	4	2	1	...	...	9	10	...	...	33
Exhaustion of Chronic Mental Disease	...	2	9	...	3	...	...	...	...	4	...	...	18
General Paresis	9	...	8	1	14	1	...	1	23	8	...	...	65
Intoxications:—													
Alcoholism	...	...	...	1	...	...	...	...	...	1	...	...	2
Morphinism	...	...	...	...	...	...	...	...	...	...	...	...	...
Metallic Poisoning	...	...	...	...	...	...	...	...	1	...	...	...	1
Heat Stroke	...	...	...	...	...	...	...	...	...	...	...	...	...
Debility of Old Age	6	...	30	2	25	2	...	...	35	9	...	...	109
Accident	1	...	1	...	2	...	...	...	...	...	...	...	4
Suicide	...	...	...	1	1	...	...	...	...	1	...	...	3
Surgical Diseases	...	...	...	1	...	1	2	...	...	...	1	...	5
Gynæcological Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...
Malignant New Growths, or Cancer	1	1	1	2	3	2	...	...	3	1	...	...	14
Pellagra	...	...	...	...	1	2	...	...	...	...	...	...	3
Unknown (died on probation)	...	...	4	...	...	...	...	...	...	...	...	...	4
Totals	61	18	105	39	104	29	51	12	107	69	10	1	606

TABLE No. 12.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium									
(b) Infection Delirium	1	6	7	1	8	9	1	2	3
(c) Post Infection Psychoses	4	5	9	3	2	5			
Exhaustion Psychoses:—									
(a) Collapsed Delirium	4	5	9		2	2	5	3	8
(b) Acute Confusional Psychoses	4	9	13	4	9	13	1	3	4
(c) Neurasthenia	12	3	15	9	7	16			
(d) Pellagra		2	2					2	2
Intoxication Psychoses:—									
(a) Acute Intoxications	12	9	21	9	6	15	1	3	4
(b) Chronic Intoxications	9	1	10	3		3	1		1
(a) Alcoholism (acute and chronic)	22		22	16	2	18	6		6
(b) Delirium Tremens	2		2	1		1	1		1
(c) Korsakow's Psychoses		1	1	1	2	3		1	1
(d) Acute Alcoholic Hallucinosis	4		4	4		4			
(e) Alcoholic Hallucinatory Dementia							1		1
(f) Alcoholic Paranoia	4		4	1		1	1		1
(g) Alcoholic Paresis									
(h) Morphinism	11	9	20	14	7	21			
(i) Cocainism									
(j) Pellagra									
Thyrogenous Psychoses:—									
(a) Mixœdematous Psychoses		1	1		1	1			
(b) Cretinism									
(c) Hyperthyrogenous									
(d) Exophthalmic Goitre									
Dementia Præcox:—									
(a) Hebaphrenic	103	78	181	46	32	78	7	10	17
(b) Catatonic	125	149	274	56	83	139	12	32	44
(c) Paranoid	154	141	295	45	53	98	17	13	30
(d) Simplex	1	4	5						
General Paresis	87	21	108	17	3	20	52	14	66
Organic Dementias:—Traumatic									
(a) Cerebral Sclerosis	1	1	2				2		2
(b) Huntingdon's Chorea		5	5		2	2		2	2
(c) Multiple Sclerosis	2		2				1		1
(d) Cerebral Syphilis	4		4				2	1	3
(e) Tabetic Psychoses									
(f) Arterio-sclerotic Psychoses	16	19	35	5	7	12	21	8	29
(g) Cerebral Tumor, Abscess, Haemorrhage	5	8	13		2	2	4	3	7
(h) Traumatic Dementia									
(i) Encephalitic		1	1						
Involution Psychoses:—									
(a) Melancholia	17	51	68	4	36	40	7	18	25
(b) Pre-senile Delusional Psychoses	14	28	42	7	10	17	4	5	9
(c) Senile Dementia	115	132	247	16	25	41	79	90	169
(d) Presbyphrenia									
Totals—Carried forward	733	689	1,422	262	299	561	226	210	436

TABLE No. 12.—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Totals—Brought forward	733	689	1422	262	299	561	226	210	436
Manic Depressive Psychos:—									
(a) Manic States	88	107	195	56	95	151	8	22	30
(b) Depressed States	98	107	205	54	80	134	10	12	22
(c) Mixed States	3	19	22	6	7	13	2	2	4
(d) Paranoia	12	10	22	1	4	5	1	1	2
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	43	19	62	10	6	16	13	6	19
(b) Hysterical Psychoses	2	4	6	2	3	5	....	....	....
(c) Sexualis Psychopathia	.....	.....	.....	....	2	2	....	....	....
(d) Post Apoleptic	.....	.....	.....	.....	.....	.....	....	....	....
(e) Con. Psychical Psychoses	.....	.....	.....	.....	.....	.....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	121	91	212	53	31	84	24	17	41
(b) Idiocy	23	22	45	3	1	4	16	15	31
(c) Mental defect	8	4	12	1	2	3	....	....	....
Psychopathic personality	5	.....	5	.....	.....	.....	....	....	....
Not Diagnosed	24	31	55	36	8	44	4	7	11
Not Insane	13	2	15	7	4	11	....	....	....
Woodstock	17	13	30	5	9	14	6	4	10
Totals	1190	1118	2308	496	551	*1047	310	296	606

*Includes forty deports.

TABLE No. 13.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on October 31st, 1924.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	289	163	26	24	21	85
From 1 to 2 months	166	248	22	21	9	41
" 2 " 3 "	112	165	30	34	2	29
" 3 " 4 "	95	182	44	36	2	28
" 4 " 5 "	67	131	36	34	1	21
" 5 " 6 "	77	130	23	41	3	16
" 6 " 9 "	139	304	81	99	8	34
" 9 " 12 "	111	283	51	81	9	30
" 12 " 18 "	188	435	25	66	4	42
" 18 months to 2 years	97	473	20	39	1	29
" 2 to 3 years	168	646	15	40	3	36
" 3 " 4 "	102	656	5	23	3	37
" 4 " 5 "	107	1,393	3	15	.....	32
" 5 " 10 "	175	1,215	7	18	1	43
" 10 " 15 "	95	844	2	3	.....	26
" 15 " 20 "	47	642	1	2	.....	20
" 20 years and upwards	85	1,234	1	2	3	57
Unknown	40	.....	.....	.....	.....	.....
Not Insane	6	.....	.....	.....	.....	.....
Totals	*2,166	9,144	†392	‡578	§70	606

NOTE—This total must agree with the total admissions of the year.
*142 Orillia not included. †2 deports included. ‡35 deports included. §3 deports included.

TABLE No. 14

Statement showing Acreage, Valuation, etc.

Hospitals	Date of Opening	Total acreage	Area under cultivation, Acres	Acreage in Grounds and Buildings	Value of Real Estate
Brockville	1894	569	544	25	$64,860
Cobourg	1904	40	10	30	16,500
Hamilton	1876	527	462	65	245,500
Kingston	1876	164	106	58	68,600
London	1870	537	469	68	165,800
Mimico	1890	*380	298	82	243,500
Orillia	1876	456	408	48	47,090
Penetanguishene	1904	383	373	10	13,220
Toronto	1841	24	.....	24	300,000
Woodstock	1905	323	307	16	65,900
Whitby	1919	640	480	160	128,000
Total	.....	4,043	3,457	586	$1,358,970

*Includes 100 acres rented.

TABLE No. 15.

Showing the number of Officers and Employees in each Hospital.

Occupation.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Whitby Hospital.	Orillia Hospital.	Woodstock Hospital.	Total.
Superintendents	2	1	2	2	2	2	1	2	2	1	1	18
Physicians	1	1	3	....	3	1	2	1	3	3	1	19
Bursars	1	1	1	1	1	1	1	1	1	1	....	10
Storekeepers and Assistants	2	....	3	1	1	1	....	1	2	1	....	12
Matron and Assistants	1	1	2	....	1	1	....	1	1	1	1	10
Office Staff (Clerks and Stenographers)	3	2	5	2	3	5	1	4	4	1	1	31
Engineers, Stokers and Assistants	8	5	13	7	15	8	5	9	9	8	2	89
Farmers and Gardeners	11	1	18	5	13	6	5	1	18	8	7	93
Dentists	....	....	1	....	1	....	....	....	....	....	....	2
Attendants, Male	54	1	74	43	66	36	15	41	57	32	10	429
Female Nurses	60	31	54	47	66	35	16	71	97	36	8	521
Domestic Help (Cooks, etc.)	15	9	29	11	40	17	10	17	30	29	7	214
Mechanics	8	1	9	3	8	4	3	4	10	3	1	54
Totals	166	54	214	122	220	117	59	153	234	124	39	1,502

TABLE No. 16.

Statement of Revenue from Paying Patients, and Farm and Miscellaneous Revenue.

Hospital.	From Paying Patients.	From Farm and Miscellaneous.	Total.
Brockville	46,952 14	1,585 30	48,537 44
Cobourg	9,271 44	458 91	9,730 35
Hamilton	87,972 41	6,599 82	94,572 23
Kingston	36,301 03	2,952 54	39,253 57
London	79,001 49	4,657 07	83,658 56
Mimico	42,926 87	2,733 46	45,660 33
Penetanguishene	1,317 64	1,400 40	2,718 04
Toronto	48,331 41	12,361 27	60,692 68
Whitby	81,357 15	5,652 93	87,010 08
Orillia	30,179 62	2,340 15	32,519 77
Woodstock	29,810 44	1,944 21	31,754 65
Guelph	11,278 28	100 20	11,378 48
Totals	504,699 92	42,786 26	547,486 18

Total revenue for last year, $446,308.40.

Revenue from railway taxation, under 6 Edward VII, Cap. 9, sec. 4, sub-sec. 2, $162,870.10.

TABLE No. 17.

Statement showing the Expenditure on Maintenance under the different headings of the estimates for the year ending October 31st, 1924.

Headings of Estimates.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Whitby Hospital.	Orillia Hospital.	Woodstock Hospital.
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Medicines and medical comforts	4,632 57	568 74	7,356 19	3,547 04	5,972 93	3,485 81	1,232 71	4,433 49	7,496 48	3,298 09	1,243 27
Groceries, provisions and butchers' cattle.	63,389 77	28,886 65	87,662 02	50,073 67	83,626 77	46,160 81	20,618 98	85,901 29	89,521 94	51,019 08	14,391 51
Fuel, light and water..	37,071 59	21,093 55	41,519 93	33,206 15	36,964 10	24,343 76	15,141 45	35,042 42	57,217 78	32,883 94	13,517 76
Clothing	16,360 79	4,929 33	16,417 40	13,384 10	21,898 29	8,897 57	7,896 10	16,646 81	19,911 98	28,166 96	689 17
Laundry and cleaning.	4,305 40	1,643 96	4,260 24	4,422 33	7,763 31	4,804 74	1,790 09	8,990 08	9,345 20	5,660 24	1,519 71
Furniture and furnishings	18,587 97	4,267 91	13,419 95	11,922 48	24,769 43	9,606 84	4,394 97	24,084 06	19,431 61	18,698 28	2,649 25
Office expenses	1,571 25	396 24	1,619 95	1,009 14	1,393 75	1,175 53	271 11	1,116 20	1,272 52	1,243 79	358 40
Farm expenses	9,943 60	974 08	13,183 80	4,672 77	12,949 95	5,007 41	5,551 65	1,619 05	15,729 77	9,994 52	3,622 24
Contingencies	2,536 82	1,106 91	2,523 00	2,064 37	3,112 76	1,204 18	618 11	1,753 52	2,894 25	2,480 49	226 80
Salaries	125,635 27	42,317 80	175,037 65	99,097 05	175,766 91	93,542 79	52,173 37	108,327 74	160,409 01	111,352 49	34,149 13
Totals	284,035 03	106,185 17	363,000 13	223,399 10	374,218 20	198,229 44	109,688 54	287,914 66	383,230 54	264,797 88	72,367 24

APPENDIX

TO FIFTY-SEVENTH ANNUAL REPORT UPON THE ONTARIO HOSPITALS FOR THE INSANE AND CONTAINING THE ANNUAL REPORTS OF THE SUPERINTENDENTS OF THE HOSPITALS IN HAMILTON, MIMICO, LONDON, PENETANGUISHENE, TORONTO, ORILLIA, AND HOMEWOOD SANATORIUM, GUELPH.

THE ONTARIO HOSPITAL, BROCKVILLE

November 25th, 1924.

The Inspector of Hospitals, etc.,
Parliament Buildings, Toronto, Ont.

SIR:—

I have the honour to present the Annual Report of the Ontario Hospital, Brockville, for the year ended October 31st, 1924.

Thanking you for co-operation during the past year.

I have the honour to remain,

Your obedient servant,

P. MACNAUGHTON,
Superintendent.

THE ONTARIO HOSPITAL, COBOURG

November 1st, 1924.

The Inspector of Hospitals, etc.,
Parliament Buildings, Toronto, Ont.

SIR:—

In accordance with statutory requirements, I have the honour to submit Annual Statistical Report of the Ontario Hospital, Cobourg, for the year ending October 31st, 1924.

I have the honour to remain,

Your obedient servant,

W. T. WILSON,
Superintendent.

THE ONTARIO HOSPITAL, HAMILTON

November 1st, 1924.

The Inspector of Hospitals,
Parliament Buildings, Toronto, Ont.

SIR:—

I have the honour of submitting herewith the forty-ninth Annual Report of this hospital, which is for the year ending October 31st, 1924.

In the list of admissions which numbered in all 319, the involutional and senile classes were again highest proportionally in number and the dementia praecox group second, while those suffering from paresis numbered fourteen—this is three in advance of the previous year and considerably in excess of any former year.

Our increase in population was twenty-three, notwithstanding the opportunity afforded us of transferring to other hospitals some fifty-four patients, and it shows that without doubt further accommodation will have to be provided at one or more centres for the ever increasing numbers coming under our care.

Here, if a proper residence could be provided for our male attendants, the rooms they now occupy on the wards would provide accommodation for at least 120 patients and the staff would be greatly benefited by the change.

BUILDINGS

Much has been done in the matter of painting and general upkeep of the wards, etc., and many have been the expressions of approval of their homelike, bright and sanitary condition by friends and relatives of patients and grand juries when on their rounds of inspection.

The new farm silo built of concrete blocks made by our own cement worker and patients has been erected and will supply a great need at our distant farm group.

From our quarry we were able, after supplying our own needs for road work and buildings, etc., to give to the County Road Commissioners 2,000 cubic yards of the broken stone and screenings, with which they constructed a first class macadam pavement to our premises and by using this means of access for bringing in coal and other heavy commodities we are able to keep our front entrance and roads in good condition.

FARM AND GARDEN

The hay crop was exceptionally heavy and grain and roots good. In the garden, vegetables showed an exceptional yield.

The output of the cannery was far and away in excess of any previous year as we put up 216,645 pounds in all of canned fruits, jams, vegetables and pickles.

VOCATIONAL INSTRUCTION

A proper building where one hundred to one hundred and fifty could assemble at a time is required for vocational work as we are very much crowded

in our, at present, inadequate section of one of the dining-rooms and thus cannot assist back to mental health and vigour as many as we should through this splendid method of treatment.

I append hereto the reports of the pathologist and dentist who have efficiently and energetically carried out their portion of the work.

Thanking you for your ever ready assistance and advice.

I am,
Your obedient servant,

W. M. English,
Superintendent.

PATHOLOGICAL REPORT

November 30th, 1924.

Dr. W. M. English,
Superintendent, Ontario Hospital, Hamilton, Ont.

Sir:—

I beg herewith to submit a summary of work done in this department during the year noted above. The statistical data is still in agreement with past years, and we are accumulating some valuable reference in carrying on routine Wassermann work. This year our percentage positive of admissions is 7.67 per cent. compared with 5.95 per cent. in 1923, 6.35 per cent. in 1922, 8.17 per cent. in 1921, 7.99 per cent. in 1920, etc.

Our autopsy work continues about the same. Twenty were done this year, and the nurses and clinics were given the benefit of this method of teaching.

Our treatment of paretics was carried on with P.B. of health arsphenamine, with spinal drainage. Of our twenty-five luetics, fifteen give both blood and spinal fluid positive, while ten were blood positive and C.S.F. negative. Fifty-three treatments were given. Many repeat blood and C.S.F. examinations were done which are not included in these figures.

The accompanying table gives the classification of our positive cases:

Total Examinations of Admissions	*Positive Wassermann Reactions*	*Percentage*
326	25	7.67

Diseases Suffered From	*Positive*		*Percentage*
General Paresis	14	4.29%	4.29
Dementia Praecox	3		.93
Manic	3		.93
Toxic Psychosis	1	3.38%	.3
Senile	3		.92
Epilepsy	1		.3

In this analysis it is seen that syphilis has an apparent bearing in the psychosis in 4.29 per cent. only, while the clinical findings did not indicate that the remaining 3.38 per cent. were in any way due to syphilitic infection.

Respectfully submitted,

W. R. Jaffrey,
Pathologist.

REPORT OF DENTAL WORK

ONTARIO HOSPITAL AT HAMILTON FOR 1923-1924

Months of Year	Fillings	Extractions	Scaling	O.K.'s	Full Dentures	Partial Dentures	Repairs	Crowns	Examinations
November, 1923...	39	37	7	19	5	7	6	.....	47
December.....	6	9	7	6	.....	2	4	.....	16
January, 1924.....	26	24	10	7	.....	.....	.....	.....	28
February.....	36	75	9	11	4	2	8	.....	39
March.....	117	70	36	32	5	.....	3	.....	66
April.....	12	40	14	6	7	.....	.....	.....	33
May.....	42	52	12	5	4	.....	8	.....	39
June.....	38	28	9	6	8	.....	3	.....	27
July.....	26	36	12	12	.....	.....	.....	.....	32
August.....	Two	Weeks'	Vacation						
September.....	33	39	10	16	.....	.....	.....	.....	40
October.....	21	56	2	4	1	1	3	.....	32
Total.....	396	466	128	124	34	12	35	.....	399

THE ONTARIO HOSPITAL, KINGSTON

November 17th, 1924.

The Inspector of Hospitals,
Parliament Buildings, Toronto, Ont.

SIR:—

I have the honour to enclose you herewith the Annual Report of this hospital for the year ending October 31st, 1924.

Yours sincerely,

EDW. RYAN.

THE ONTARIO HOSPITAL, LONDON

November 15th, 1924.

Inspector of Hospitals,
Parliament Buildings, Toronto, Ont.

SIR:—

In presenting the fifty-fourth Annual Report of the Ontario Hospital, London, I wish to call your attention to the most important requirement of this hospital at the present time, viz.: increased accommodation for patients.

Every available space is now filled. It is more than probable that our admissions for the next three years will average three hundred and fifty a year.

We will discharge about one-half of that number; one-quarter will die, leaving a net increase each year, of some sixty or seventy patients. Where will we put them? Every room and dormitory is now filled to the utmost capacity and even the corridors are being used for beds.

With the exception of the Reception Hospital, which accommodates about one hundred patients, no new buildings have been built here for fifty years.

The construction during the past fifteen years of eight large sun-rooms, or enclosed balconies, has enabled us to receive practically every patient applying for admission. That method of relief, however, is almost at an end as there is room for only two more balconies.

I would suggest that at least two new buildings be constructed here in the immediate future, one for convalescents and one for seniles. This would relieve the situation for a few years. Surely the most economical method of providing for the increase of patients, which we know will take place, is to enlarge existing institutions to a capacity of at least two thousand patients. At this institution, little or no difficulty would be met with in making such an addition—water supply, sewage disposal, farm, gardens, ornamental grounds, walks, trees and the numerous things which an institution must have are all here.

In spite of our overcrowded condition, the results of our medical work during the year have been quite satisfactory. You will see from Table 1 that our admissions numbered 346 and our discharges 186, or, in other words, the discharges amount to 53 per cent. of the admissions.

I would earnestly ask that this urgent question be given the attention which it deserves.

Training School

Probably the most striking feature of the past year has been the great improvement in our training school. We were very fortunate about a year ago, in securing Miss M. L. Jacobs as Superintendent of Nurses and already, in the short period of twelve months, a great change has taken place. Our nurses receive a training not excelled in any other special hospital in the Province. With an affiliation with one or two large General Hospitals, which we hope to have in the near future, our nurses will be placed in a most favourable position. A good nursing staff is essential for any hospital and this cannot be obtained without the assistance of a highly qualified Superintendent of Nurses.

Intravenous Clinic

Another feature of our work has been the splendid results of the treatment of luetic diseases by the Assistant Superintendent, Dr. G. H. Stevenson. In my report for next year, I will endeavour to give more details regarding this work but for the present I will only say that I have been astonished and delighted at the great improvement in numerous cases of general paresis—a disease which only a few years ago was looked upon as hopeless and for which treatment was of no avail.

I have the honour to be,

Your obedient servant,

W. J. Robinson,
Superintendent.

THE ONTARIO HOSPITAL, MIMICO

The Inspector of Hospitals,

Parliament Buildings, Toronto, Ont.

SIR:—

In accordance with the requirements of the statute, I have the honour to submit the thirtieth Annual Report of the Ontario Hospital at Mimico for the year ending October 31st, 1924.

ADMISSIONS

During the official year just closed, one hundred and twenty patients were admitted to this hospital, fifty-one by Lieutenant-Governor's warrant and sixty-eight by medical certificates, and one by the voluntary process.

The chief operating causes assigned by friends and physicians are classified as moral, physical, and hereditary. Under the first class are included adverse social conditions with mental strain and overwork and worry and these with other kindred causes accounted for twenty cases. Under the second class, bodily diseases, accidents, epilepsy and lactation rank high as contributing causes, but all of the combined operating causes of this class only account for thirty-two cases.

Under the class of hereditary transmission twenty-nine cases are recorded while the large number of cases of so-called unascertainable causes would indicate obscurity of cause or inattention or unwillingness to communicate information on this subject. There were no recorded cases traceable to the use of alcohol and only one attributable to venereal disease. Six cases were due to the strain and incidents of reproduction while seven cases were caused by epilepsy.

DISCHARGES

During the year, fifty-two persons were discharged and their names written off the books, while forty-nine were discharged on probation, vacancies being reserved for them at the hospital during their trial periods at home or among their friends.

Forty-two patients, twenty men and twenty-two women were transferred during the year to other hospitals in order to make accommodation at this place for other patients in this district.

DEATHS

During the official year only twenty-nine patients died at this hospital, ten being men and nineteen being women. A five per cent. per capita death rate at a hospital of six hundred patients is an unusually low mortality rate and the incident furnishes an agreeable illustration of the utter undependability of statistical deductions. During the past six years the average number of deaths was fifty-five, which would be practically double the rate for the last year, and yet there is no apparent explainable reason for this remarkable disparity compared with the average years.

Of the total number twenty-nine, the cause of death in six cases was pneumonia, in four cases tuberculosis, in three cases cardiac disease, and in two cases each arterio-sclerosis, epilepsy, Bright's disease, cancer and senility.

Crime and Insanity

Since the great war there has been an increase per capita in our Province in criminal acts both great and small in comparison with the five years prior to that event. Criminologists have been practically unanimous in ascribing this increase in crime to the physical and mental and moral exhaustion of those whose demoralization has expressed itself in some form of outrage. During the first year after peace was proclaimed and perhaps for a considerably longer period in many instances there was a disposition to regard with measured leniency not only the minor infractions of the law but even the major ones. The soldier had been trained to hate his enemy and to kill him and that such an act was meritorious. The enemy stood in the way obstructing the road to peace and everything which seemed dear and desirable and right to the mind of the soldier and therefore he should destroy him. Even the layman at home had become so familiar with the professional military sacrifice of human life, retailed to him day after day for four years, that the act of killing a human being had lost somewhat of its criminal significance. Men and women of the highest culture and finest sensibilities were not shocked by the picture of human slaughter and sacrifice as they had formerly been, and this temporary and varying insensibility to major criminal acts was projected forward and made to include the minor criminal acts as well. When the soldier was trained to eliminate the human being who interfered with his interests, it is not much wonder that his conception of the niceties of legal rights should be at least seriously obtunded. If the removal of the greater obstacle to happiness were right, surely the removal of the lesser obstacle would be equally justifiable. The wide dissemination of this seductive doctrine no matter how fallacious it might be, made its adoption easy by defectives and degenerates, and the remarkable increase of irresponsible criminal acts of the major type became the inevitable consequence.

The Ontario Neuro-Psychiatric Association

It may not be inappropriate to refer briefly to the work of the Neuro-Psychiatric Association during the current year as aside from its purely scientific accomplishments, its members have made important contributions of a sociological character having a direct bearing upon the improvement of the human race and the protection which should be accorded to the defective classes.

One of the important subjects considered by the Association at the Hamilton meeting in June last was that of "Preventive Measures in Psychiatry." It was pointed out that so far there had been no coherent effort and comprehensive co-operation by the medical profession to secure as far as possible the limitation of the conception and production of defectives in this Province. It was also suggested that measures for the limitation of defectives and degenerates would not only be more humane but also more economical than the expenditure of large volumes of philanthropic energy and vast sums of money for their care after they had been brought into the world. Three principle measures were considered, namely: (1) Supervision of Immigrants; (2) Sterilization; (3) Improvement of the Marriage Laws.

In reference to the last mentioned measure it was urged that if the marriage licenses were only issued by the Medical Health Officers there would at least be some professional supervision over this first step in the contract leading to the propagation of the human offspring. It was pointed out that at present there is no pretense of any guiding supervision of those about to marry and as a con-

sequence no educational influence to encourage the production of the normal type of children.

Another very important subject which was presented for consideration was "The Inter-relations of Psychiatry and Criminology." The writer pointed out the differences in the point of view and the language used by the members of the professions of Law and Medicine, and he showed how the former could not be expected to clearly understand by reason of want of practical knowledge of mental diseases what seemed so clear to the latter. It was further shown that the legal tests of criminal responsibility had remained unaltered for over eighty years while during that time great advancement had been made in the knowledge of mental diseases and that the modern understanding of those diseases called for a readjustment of the legal tests of responsibility.

The presentation of a paper by one of the prominent practitioners in Toronto on the subject of "The Relations of the General Practitioner to the Ontario Hospitals" was greatly appreciated and will be mutually helpful to everyone.

Farm, Garden and Grounds

There is no form of outside occupation of more value to patients, especially men than that afforded them by the cultivation of the garden and grounds, and the return of vegetables and fruits as the outcome of that work is of real value to the hospital. Lettuce, radishes, onions, rhubarb, asparagus, celery, potatoes and other vegetables have been generously supplied for the tables during the summer and autumn, and strawberries, raspberries, currants, gooseberries and cherries, plums and pears have been enjoyed by everyone at their appropriate season.

The work on the grounds in keeping the lawns in good order and the trees well trimmed has given a keen relish for food and an appreciation of physical rest to many who would otherwise have been without these blessings.

Farming operations have also been carried on successfully and the work of the farmer and patients has been rewarded with an abundant yield of hay, corn, vegetables and milk.

Officers and Employees

There have been no important changes among the permanent employees at this place during the past year, and there were only fifty-seven new employees engaged to fill the places of those who had terminated their services for various reasons. In addition to the greater stability of the staff, I am happy to testify to a gradual improvement in the quality of the service rendered.

Gratefully acknowledging your patient consideration and helpful counsel at all times during the past year.

I have the honour to be, Sir,

Your obedient servant,

N. H. Beemer,
Superintendent.

THE ONTARIO HOSPITAL, PENETANGUISHENE

November 20th, 1924.

The Inspector of Hospitals,
Parliament Buildings, Toronto, Ont.

SIR:—

I beg to enclose your herewith the Annual Report of the Ontario Hospital, Penetanguishene, for the year ending October 30th, 1924.

At the end of the previous year there were in residence three hundred and thirty-two patients, one hundred and fifty-two (152) men and one hundred and eighty (180) women. In July thirty-eight patients were transferred from Toronto and Mimico, eight men and ten women from Toronto and ten men and ten women from Mimico, one woman was transferred from Brockville. Two women were discharged and five men and seven women died, leaving in residence October 30th, 1924, one hundred and sixty-five (165) men and one hundred and ninety-two women, a total of three hundred and fifty-seven (357).

During the year a large amount of new work has been undertaken and completed. The old lavatories in the women's wards were torn out and the floors and walls tiled and new plumbing and fixtures installed. The entrances to the wards were also tiled.

The heating system of the women's wards has been overhauled, new and larger coils replacing the old ones, thereby giving us a much greater amount of heat, sufficient I think to keep the wards comfortable in the coldest weather.

All the outside woodwork of the various buildings has been painted, also the interiors of the two cottages and two of the wards in the main buildings. All the wards will be repainted by the end of the year.

A considerable amount of reshingling of the roofs of several of the buildings has also been done.

It is hoped that in the coming year the new store rooms may be completed and ice plant installed.

Our present ice house is practically a wreck and if the ice plant is not in stalled a new and larger one should be built.

In September Dr. Graham was transferred to Cobourg and Dr. Kilgour appointed in his place.

I have the honour to be, sir,

Your obedient servant,

W. K. Ross,
Superintendent.

THE ONTARIO HOSPITAL, TORONTO

November 29th, 1924.

The Inspector of Hospitals,
Parliament Buildings, Toronto, Ontario.

SIR:—

I have the honour to submit the eighty-fourth Annual Report of this hospital for the twelve months ending October 31st, 1924.

At the close of the year we had in residence 821 patients. This completely fills the accommodation on the male side of the hospital, but we have a few vacancies on the female side.

During the year we admitted 291 male patients and 216 female patients, making a total of 507 admissions.

During this time we discharged from the hospital a total of 301 patients. Of these:—

89	were	discharged	recovered.
117	"	"	improved.
24	"	"	unimproved.
2	"	"	not insane.
40	"	"	deported.
29	"	"	eloped.

Our average population was 777 patients and all told 301 patients were discharged from the hospital during the year. Our admissions last year were 507 patients, and still we were able to discharge 301.

During the year 107 patients died in the hospital, and it is interesting to us to learn that fifty-seven of these 107 were patients over 60 years of age.

I am very pleased to be able to report that during the year we had no suicides or other serious accidents among our patients. In addition to this it is worthy of note that although we sent out over three hundred patients during the year, we had no suicides or accidents occurring among these patients after they left the hospital. A great deal of attention must be given to the patients that are allowed to leave the hospital, and their discharge must be the result of careful consideration to prevent trouble of some kind occurring in the home after the patient's return from the hospital.

We have been particularly fortunate during the past year, and we hope that we may be able to maintain this creditable record for many years.

Just here I wish to draw your attention to the fact, that with over 300 patients going out from the hospital into the City of Toronto, it seems quite necessary that we should have a follow-up system of nursing. I mean that one or two of our nurses, who have been trained in the special care of these patients, should at regular periods visit the discharged patients at their homes and see how they are getting along. We have done a little of this work in the past, but we have not retained a regular nurse for the work. As soon as I have discovered in one of our graduate nurses the proper qualifications I hope to be able to employ her constantly in this work. It is just possible that when the Reception Hospital is opened the one body of Social Services Nurses will be able to do the follow up work for this hospital and the Reception Hospital.

During the past year a great many improvements have been made about the hospital.

An incinerator has been built, and is very satisfactory. We can burn any garbage or refuse that accumulates about the hospital. This should assist in our campaign against flies and mosquitoes.

Cottage B Hospital which has been heated by two furnaces has been connected with the boiler room so that now it can be heated by steam. We did not have to buy anything, and the new arrangement is furnishing heat and hot water very satisfactorily. The engineer tells me that we were burning about sixty tons of coal a year at this cottage. This year we will not burn any. In addition to this we save the labour of one of the engineers whose duty it was to keep the fires going in these furnaces.

A new boiler room has been built, and new boilers have been set up

We have had very few changes in our staff during the past year. The same medical officers and other executive officers of the hospital are with us, and all of them are, I believe, giving faithful and conscientious service.

During the year church services have been held regularly every Sunday morning. Many concerts have been given; picture shows have been put on every week, and dances have been held regularly in the Amusement Hall. All of these entertainments have been a great source of pleasure to the patients.

In conclusion I wish to thank all who have given us so much of your time and attention in the management of this hospital. Without your co-operation and help it would have been impossible for us to have taken in so many new patients, or to have accomplished a cure of such a large percentage of our patients.

I have the honour to remain, sir,

Your obedient servant,

HARVEY CLARE,
Superintendent.

THE ONTARIO HOSPITAL, WHITBY

November 22nd, 1924.

The Inspector of Hospitals,
Parliament Buildings, Toronto, Ontario.

DEAR SIR:—

I am sending you herewith the Statistical Report of this hospital for the year ending October 31st, 1924.

I have the honour to be, sir,

Your obedient servant,

J. M. FORSTER,
Superintendent.

ONTARIO HOSPITAL, ORILLIA.

November 1st, 1924.

The Inspector of Hospitals,
Parliament Buildings, Toronto, Ontario.

SIR:—

I have the honour to present to you the Annual Report of the Ontario Hospital, Orillia, for the year ended October 31st, 1924.

The total admissions for the year were 142. Out of this 25 were under 8 years of age, 42 from 8 to 12, 44 from 12 to 20, 15 from 20 to 30 and 16 over 30.

The importance of heredity as a contributing factor to the population of a hospital such as ours is again revealed in the statistics for 1924. Out of 142 admissions 60 show positive heredity tendencies, 62 none, and in 20 cases it was impossible to come to a definite conclusion owing to the lack of information in our files.

The classification of the admissions for 1924 shows a continuing preponderance of high and middle grades. The morons numbered 21 males and 10 females; imbeciles 32 males and 33 females; and there were 23 male and 21 female low grades.

During the year in addition to the regular supervision and ordinary medical work there was a number of outbreaks of infectious disease. Six patients and one employee had typhoid fever. Our water supply has been frequently examined and found free from contamination. Typhoid vaccine has been used with great satisfaction as a protective measure. Nine patients and three employees contracted diphtheria. The number would, no doubt, have been much greater but for the application of the Schick test and immunization which have apparently reduced the danger from this source to a minimum. An epidemic of measles visited us during the spring and early summer when one hundred and eighty-one patients and two employees had the disease. Most of these cases presented no special difficulty but some of the lower grade children with little physical resistance, developing pneumonia, rapidly succumbed. There were altogether six deaths during this epidemic.

The Wassermann test has beep extensively applied to our population with a result that eight per cent. have given positive reaction. This is not nearly so high as some investigators anticipated we would find, but we believe it to be reliable.

The training school has made substantial progress during the year. We have now ten classes in the academic and industrial departments.

An important development in our industrial activities was the establishment of a bootmaking department. It is an experiment at present but we have gone far enough to satisfy ourselves that the enterprise was justified on both economic and educational grounds. There is no question but that we shall be able to save money by the manufacture of our own boots; and the employment of probably a dozen of our boys will mean much in their better equipment for profitable employment here or in the outside world.

The chief work of the year was the building of the tunnel to and the foundation of the new cottage. The tunnel, 450 feet long, is under ground most of the way and has a double passage, the upper part being for pedestrians and

Teaching Staff. Ontario Hospital, Orillia.

View of Grounds, Ontario Hospital, Orillia.

Side View of Buildings, Ontario Hospital, Orillia.

Main Entrance to Ontario Hospital, Orillia.

the lower section for services, water, light, heat, etc. The excavation for the new building and the construction of the walls one foot above the grade line proved a bigger undertaking than we had anticipated; but through good luck and fine weather, we were enabled to get everything closed up before the winter set in. The extreme length of the building is 352 feet and its average breadth is about 60 feet. These dimensions, however, do not give an accurate idea of the work involved as the inside walls are many and irregular and the whole rather complicated. A rough estimate shows that there were over 4,800 yards of dirt moved and 2,500 yards of concrete poured. This work, with the exception of the employment of three form makers for a few weeks, was all done by patient labour under the direction of our regular staff.

We had very satisfactory returns from the farm and garden. Generally speaking, the crops were above the average. The yield of potatoes was exceptionally large, over 11,000 bushels off of 32 acres. This will enable us to provide for our own wants till next summer and have for sale to other institutions three or four thousands bushels of select seed potatoes.

One more investment will be really necessary to place this institution in the best position to contribute to its own economic maintenance. If we could secure within reasonable distance of this hospital 200 acres of good land we should be enabled to house at a small cost fifty of our working boys in a farm colony and meet all the requirements of the institution in the way of staple food products. This enterprise would not involve an expenditure greater than ten to fifteen thousand dollars.

In the year 1924 we may be said to have completed the development of our pure-bred Holstein herd. We have now in our dairy barn 52 registered females and one registered bull. While we have no exceptional records, I am inclined to believe that the average production will compare with most herds of like growth.

Two new outside industries were established in 1924, a poultry department and an apiary. We had shipped from Hamilton in the early spring, 400 two-weeks-old Barred Rock chicks. They thrived well and we placed in winter quarters 235 pullets. The prospects are very good for the development of a profitable poultry department.

I beg to thank all in the Department for their cordial co-operation and assistance in the work of this hospital.

I have the honour to be, sir,

Your obedient servant,

J. P. Downey,
Superintendent.

ONTARIO HOSPITAL, WOODSTOCK

RE ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT FOR THE YEAR ENDING OCTOBER 31ST, 1924.

The Inspector of the Ontario Hospitals,
Parliament Buildings, Toronto, Canada.

SIR:—

I am enclosing you the nineteenth Annual Report for the Ontario Hospital, Woodstock, for the year ending October 31st, 1924.

I have the honour to be, sir,

Your obedient servant.

J. J. WILLIAMS,
Superintendent.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOMEWOOD SANITARIUM, GUELPH

Voluntary Branch

TABLE No. 1

Showing movements of patients in the Hospital for the official year ending October 31st, 1924.

	Male	Female	Total	Male	Female	Total
Capacity of Hospital	75	75	150			
In Residence October 31st, 1923	.....	.....	.....	30	42	72
Admitted during year 1924:						
By Warrant	0	0	0			
By Voluntary Applications	140	84	224	140	84	224
Total number under treatment during year	.....	.....	.....	170	126	296
Discharges during year:						
As recovered	18	9	27			
As improved	84	55	139			
As unimproved	18	15	33			
As not insane	0	0	0			
Total number discharged during year	120	79	199			
Died	10	9	19			
Deported	0	0	0			
Eloped	4	2	6			
Transferred	7	7	14	141	97	238
Remaining in Hospital, October 31st, 1924	.....	.....	.....	29	29	58
Total number admitted since opening of Hospital	.....	.....	.....	2,636	1,297	3,933
Total number discharged since opening of Hospital	2,364	1,140	3,504			
Total number died since opening of Hospital	99	48	157			
Total number deported since opening of Hospital	0	0	0			
Total number eloped since opening of Hospital	72	7	79			
Total number transferred since opening of Hospital	72	63	135	2,607	1,268	3,875
Total remaining in Hospital October 31st, 1924	.....	.....	.....	29	29	58
Daily average population	.....	.....	.....	.....	.....	.....
Collective day's stay of all patients in residence during year	.....	.....	.....	.....	.....	.....
Number of applications on file	.....	.....	.....	.....	.....	.....

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOMEWOOD SANITARIUM, GUELPH

Insane Branch

TABLE No. 2

Showing movements of patients in the Hospital for the official year ending October 31st, 1924.

	Male	Female	Total	Male	Female	Total
Capacity of Hospital	75	75	150			
In Residence October 31st, 1923				13	39	52
Admitted during year 1924:						
By Warrant	0	0	0			
By Medical Certificate	9	17	26	9	17	26
Total number under treatment during year	.....	.....	.....	22	56	78
Discharges during year:						
As recovered	1	3	4			
As improved	4	9	13			
As unimproved	4	5	9			
As not insane	0	0	0			
Total number discharged during year	9	17	26			
Died	3	3	6			
Deported	0	0	0			
Eloped	0	1	1			
Transferred	1	5	6	13	26	39
Remaining in Hospital, October 31st, 1924	.....	.....	.....	9	30	39
Total number admitted since opening of Hospital	.....	.....	.....	874	968	1,842
Total number discharged since opening of Hospital	617	702	1,319			
Total number died since opening of Hospital	130	108	238			
Total number deported since opening of Hospital	0	0	0			
Total number eloped since opening of Hospital	13	6	19			
Total number transferred since opening of Hospital	105	122	227	865	938	1,803
Total remaining in Hospital, October 31st, 1924	.....	.....	.....	9	30	39
Daily average population	.....	.....	.....	.....	.....	.....
Collective day's stay of all patients in residence during year	.....	.....	.....	.....	.....	.....
Number of applications on file	.....	.....	.....	.....	.....	.....

FIFTY-FIFTH ANNUAL REPORT

OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES

UPON THE

Hospitals and Charitable Institutions

OF THE

PROVINCE OF ONTARIO

BEING FOR THE YEAR ENDING 30th SEPTEMBER

1924

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

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1 9 2 5

Hospitals and Charitable Institutions

In presenting the fifty-fifth annual report on the Hospitals and Charitable Institutions for the year ending September 30th, 1924, I beg to state that there are at present in Ontario:—

122 Public Hospitals, including 10 Sanatoria for Consumptives.
51 Private Hospitals.
42 Refuges.
30 Orphanages.
3 Convalescent Homes.
31 County Houses of Refuge.

These have, as far as possible, received official visits of inspection during the year, and those entitled to Government aid in accordance with the Statute have shared in the Grants voted by the Legislature for Hospitals and Charities.

The Hospitals

The record of the year indicates the continued success and progress of the Hospitals of Ontario:

Number of patients in the hospitals, October 1st, 1923	6,983
Number of patients admitted during the year	124,505
Number of births in the hospitals during the year	13,713
Total number under treatment during the year	145,201

The above figures do not include those who received medicine and treatment as outdoor patients.

Number of deaths during the year	7,093
Percentage of deaths to number under treatment	4.88
Total number of days' stay in the hospitals	2,609,828
Provincial grant to hospitals for the past year	$979,791.50
Amount received from all sources during the year	8,339,440.70
Subscriptions, donations, etc., during the year	908,847.81
Total expenditure for hospitals (including capital account, $1,291,215.86) during the year	9,464,094.39
Average cost for each patient per day	3.27
Percentage of Provincial grant to total maintenance expenditure	10.8

Provincial Aid to Hospitals

1. A Provincial grant is made for all patients in a hospital during the first ten years of its existence at the rate of fifty cents per day, irrespective of what sum is contributed by the patients themselves.

2. After a hospital has been in existence for ten years the grant is paid only for patients for whose maintenance $10.50 per week or less is contributed.

3. In all cases the limit is 120 days, and if the patients remain in the hospital longer than that period the refuge rate of ten cents per day is allowed.

4. No allowance is made for infants born in hospital.

Aid to Sanatoria for Consumptives

1. A grant of $4,000 on the erection and satisfactory equipment of the necessary buildings.

2. A grant of seventy-five cents per day for the maintenance of each indigent patient.

These grants to be in consideration of proper accommodation being provided, and only to assist in the maintenance of indigent patients coming from the Province of Ontario. There were 3,042 patients cared for in the ten different Sanatoria for Consumptives during the past year.

The Year's Work in the Hospitals

The number of patients cared for in the Public Hospitals of Ontario during the past year was 145,201.

The total expenditure for maintenance and equipment during the year was $8,172,878.53.

Competition of Private Hospitals

A matter requiring the attention of the Boards of Government-aided hospitals is the need for accommodation for the great number of people who cannot afford to pay the rates charged for private patients' rooms and yet who do not wish to be classed among the indigents. This applies particularly to the larger cities. There the rapid multiplication of private hospitals indicates that the large hospitals are not meeting the public requirements.

The co-operation of medical practitioners and hospital authorities all over the Province is urgently sought by this Department in an effort to prevent the establishment of unlicensed private hospitals and so-called Rest Homes which are undoubtedly depriving the legitimate licensed and state-aided institutions of a large amount of revenue.

JAMES GOVAN,
Inspector.

TABLE I.—Showing the general movements in each hospital separately.

Hospitals.	Location.	Capacity in beds.	Number remaining under treatment on 1st Oct., 1923.	Number admitted during the year ending 30th Sept., 1924.	Number of births in hospital during the year.	Total number under treatment during the year ending 30th Sept., 1924.	Number discharged during the year.	Number who died during the year.	Number remaining under treatment on 30th Sept., 1924.
Rosamond Memorial Hospital	Almonte	20	11	212	42	265	240	9	16
Royal Victoria Hospital	Barrie	55	36	560	100	696	633	32	31
General Hospital	Belleville	100	45	1,405	158	1,608	1,482	73	53
General Hospital	Bowmanville	21	9	279	42	330	304	16	10
General Hospital	Brantford	200	98	2,386	283	2,767	2,543	137	87
Brant Sanatorium	"	54	37	43	.....	80	28	9	43
General Hospital	Brockville	80	44	903	90	1,037	939	54	44
St. Vincent de Paul Hospital	"	100	62	1,042	87	1,191	1,114	43	34
General Hospital	Chatham	85	35	1,058	111	1,204	1,063	89	52
St. Joseph's Hospital	"	100	34	689	122	845	767	49	29
Lady Minto Hospital	Chapleau	20	5	301	25	331	312	11	8
Cottage Hospital	Cobourg	34	25	390	56	471	433	28	10
Public Hospital	Clinton	25	5	136	23	164	150	9	5
Cobalt Mines Hospital	Cobalt	30	22	592	3	617	575	23	19
Lady Minto Hospital	Cochrane	40	26	405	38	469	424	16	29
General and Marine Hospital	Collingwood	50	35	572	47	654	586	31	37
General Hospital	Cornwall	62	21	514	58	593	536	27	30
Hotel Dieu Hospital	"	125	39	1,448	106	1,593	1,484	45	64
Red Cross Hospital	Dryden	12	2	229	19	250	241	7	2
Haldimand County Memorial Hospital	Dunville	18	6	194	21	221	204	12	5
General Hospital	Durham	13	5	131	20	156	138	10	8
Royal Alexandra Hospital	Fergus	60	21	291	25	337	295	21	21
McKellar General Hospital	Fort William	164	99	3,321	260	3,680	3,453	132	95
General Hospital	Galt	80	43	1,055	203	1,301	1,194	73	34
General and Marine Hospital	Goderich	15	12	174	33	219	205	7	7
Muskoka Cottage Hospital	Gravenhurst	43	27	63	.....	90	63	4	23
Muskoka Hospital for Consumptives	"	302	246	428	.....	674	376	36	262
General Hospital	Guelph	150	53	1,307	155	1,515	1,391	75	49
St. Joseph's Hospital	"	68	43	900	87	1,030	941	46	43
City Hospital	Hamilton	500	332	7,232	750	8,314	7,577	415	322
St. Joseph's Hospital	"	185	112	2,853	330	3,295	3,060	128	107
Mountain Sanatorium	"	250	189	220	.....	409	127	39	243
Memorial Hospital	Hanover	15	5	117	20	142	127	11	4
St. Paul's Hospital	Hearst	15	3	86	19	108	100	4	4
General Hospital	Ingersoll	30	11	184	44	239	219	12	8
General Hospital	Kenora	40	15	461	56	532	507	10	15
St. Joseph's Hospital	"	40	14	366	24	404	371	21	12
General Hospital	Kincardine	21	6	200	42	253	231	14	8
General Hospital	Kingston	250	149	3,792	151	4,092	3,833	132	127
Hotel Dieu Hospital	"	200	103	2,071	156	2,330	2,142	81	107
Kitchener and Waterloo Hospital	Kitchener	75	36	1,323	125	1,484	1,376	85	23
Freeport Sanatorium	"	65	49	50	.....	99	42	12	45
Ross Memorial Hospital	Lindsay	35	32	823	65	920	853	46	21
Listowel Memorial Hospital	Listowel	20	12	174	14	200	181	11	8
General Hospital	London	400	171	3,756	277	4,204	3,816	166	222
St. Joseph's Hospital	"	150	127	1,936	215	2,278	2,086	95	97
Bethesda Hospital	"	50	19	273	258	550	505	24	21
Queen Alexandra Sanatorium	"	314	240	359	.....	599	331	46	222
Victoria Home for Incurables	"	73	66	32	.....	98	8	17	73
Rosedale War Memorial Hospital	Matheson	9	2	93	29	124	118	2	4
General Hospital	Mattawa	35	18	256	.....	274	249	8	17
General Hospital	Midland	43	17	676	76	769	713	36	20
Mount Forest General Hospital	Mount Forest	15	5	99	19	123	105	13	5
Lady Minto Hospital	New Liskeard	25	18	425	33	476	447	18	11
York County Hospital	Newmarket	15	4	163	18	185	172	6	7
General Hospital	Niagara Falls	60	43	1,044	161	1,248	1,147	54	47
Cottage Hospital	Niagara-on-the-Lake	10	2	98	22	122	112	4	6
Queen Victoria Hospital	North Bay	45	21	603	78	702	645	36	21
General Hospital	Orangeville	27	10	228	34	272	246	12	14
General Hospital	Orillia	75	40	978	147	1,165	1,089	36	40
General Hospital	Oshawa	80	45	1,204	167	1,416	1,335	50	31
General Protestant Hospital	Ottawa	160	124	2,973	8	3,105	2,888	108	109
Roman Catholic Hospital	"	200	143	3,676	3	3,822	3,516	153	153
Maternity Hospital	"	26	23	374	355	752	727	5	20
Misericordia Maternity Hospital	"	230	149	468	274	891	662	81	148
Protestant Infants Hospital	"	42	29	220	.....	249	204	11	34
St. Luke's General Hospital	"	150	110	2,378	.....	2,488	2,242	125	121
Salvation Army Maternity Hospital	"	44	67	729	629	1,425	1,294	68	63
Royal Sanatorium	"	68	66	108	.....	174	69	31	74
Perley Home for Incurables	"	62	54	28	.....	82	10	14	58
General and Marine Hospital	Owen Sound	63	27	789	109	925	845	42	38
Willett Hospital	Paris	15	9	259	44	312	282	16	14
Stone Memorial Hospital	Parry Sound	35	11	407	28	446	418	11	17
St. Joseph's Hospital	"	30	9	289	34	332	307	10	15
College Hospital	Pembroke	60	20	592	40	652	608	25	19
General Hospital	"	150	48	1,125	53	1,226	1,117	62	47

TABLE I.—Showing the general movements in each hospital separately.—*Concluded.*

Hospital.	Location.	Capacity in beds.	Number remaining under treatment on 1st Oct. 1924.	Number admitted during the year ending 30th Sept., 1924.	Number of births in hospital during the year.	Total number under treatment during the year ending 30th Sept., 1924.	Number discharged during the year.	Number who died during the year.	Number remaining under treatment on 30th Sept. 1924.
General Hospital	Penetanguishene	16	10	170	35	215	190	15	10
Great War Memorial Hospital	Perth	20	9	312	36	357	332	20	5
Nicholl's Hospital	Peterborough	90	53	1,205	194	1,452	312	84	56
St. Joseph's Hospital	"	85	42	859	103	1,004	917	46	41
C. E. Englehart Hospital	Petrolea	40	15	244	48	307	268	22	17
Prince Edward County Hospital	Picton	30	3	202	16	221	208	10	3
General Hospital	Port Arthur	50	31	947	94	1,072	1,000	38	34
St. Joseph's Hospital	"	150	60	1,220	182	1,462	1,348	63	51
General Hospital	Port Hope	26	13	316	40	369	332	25	12
Victoria General Hospital	Renfrew	30	9	512	44	565	526	24	15
General and Marine Hospital	St. Catharines	80	61	1,098	288	1,447	1,309	81	57
Consumptive Sanatorium	"	24	14	26	.....	40	15	5	20
Amasa Wood Hospital	St. Thomas	55	36	852	173	1,061	961	61	39
Essex County Sanatorium	Sandwich	60	24	87	.....	111	55	9	47
General Hospital	Sarnia	56	35	709	132	876	775	68	33
Plummer Memorial Hospital	Sault Ste. Marie	30	16	643	42	701	661	21	19
General Hospital	"	200	38	1,033	64	1,135	1,043	40	52
General Hospital	Sioux Lookout	16	11	403	27	441	429	5	7
Public Hospital	Smith's Falls	31	36	524	80	640	583	35	22
St. Francis Hospital	"	70	25	439	39	503	459	20	24
General Hospital	Stratford	100	47	947	153	1,147	1,035	56	56
General Hospital	Strathroy	30	22	322	44	388	338	21	29
St. Joseph's Hospital	Sudbury	150	70	2,163	69	2,302	2,157	69	76
General Hospital	Toronto	750	568	11,430	1,308	13,306	12,037	676	593
Grace Hospital	"	128	115	2,260	531	2,906	2,692	103	111
Hospital for Sick Children	"	250	226	6,171	.....	6,397	5,616	522	259
St. John's Hospital	"	68	37	1,363	1	1,401	1,328	26	47
St. Joseph's Hospital	"	175	66	1,517	217	1,800	1,622	97	81
St. Michael's Hospital	"	305	228	4,323	448	4,999	4,462	289	248
Salvation Army Maternity Hospital	"	37	25	377	321	723	665	28	30
Orthopedic Hospital	"	40	11	596	1	608	589	4	15
Wellesley Hospital	"	80	70	1,821	259	2,150	1,998	78	74
Western Hospital	"	265	186	4,278	419	4,883	4,386	290	207
Women's College Hospital	"	50	44	916	293	1,253	1,175	35	43
The Preventorium	"	100	70	129	.....	199	148	.....	51
Toronto Hospital for Incurables	"	240	227	51	.....	278	7	45	226
Home for Incurable Children	"	40	35	9	.....	44	5	1	38
General Hospital	Walkerton	26	11	175	14	200	181	16	3
General Hospital	Welland	50	22	617	63	702	617	65	20
Toronto Hospital for Consumptives King Edward Sanatorium Queen Mary Hospital for Children	Weston	273	235	332	.....	567	208	125	234
Hotel Dieu Hospital	Windsor	125	87	2,375	397	2,859	2,618	147	94
Grace Hospital	"	102	56	1,890	283	2,229	2,047	118	64
General Hospital	Wingham	20	8	258	30	296	280	11	5
General Hospital	Woodstock	100	25	761	104	890	806	49	35
Totals for 1924		11,291	6,983	124,505	13,713	145,201	130,913	7,093	7,195
Totals for 1923		10,935	6,907	119,689	13,123	139,719	125,482	7,217	7,020

TABLE II.—Showing the collective stay in days of the adult and infant patients, also the average length of time each patient was under treatment.

Hospitals	Location.	No. of patients, including infants born.	Collective stay of infants under one year of age.	Collective stay of adult patients.	Total collective stay of adults and infants.	Average stay of each patient, including infants.
Rosamond Memorial Hospital	Almonte	265	495	2,255	2,750	10.4
Royal Victoria Hospital	Barrie	696	171	7,425	7,596	11.0
General Hospital	Belleville	1,608	1,798	15,734	17,532	10.9
General Hospital	Bowmanville	330	448	4,487	4,935	14.9
General Hospital	Brantford	2,767	3,635	37,590	41,225	14.8
Brant Sanatorium	"	80	.....	14,568	14,568	182.1
General Hospital	Brockville	1,037	1,253	16,970	18,223	17.6
St. Vincent de Paul Hospital	"	1,191	1,078	16,608	17,686	14.9
General Hospital	Chatham	1,204	1,363	16,593	17,956	14.8
St. Joseph's Hospital	"	845	1,533	11,037	12,570	14.9
Lady Minto Hospital	Chapleau	331	241	3,627	3,868	11.7
Cottage Hospital	Cobourg	471	660	4,782	5,442	11.5
Public Hospital	Clinton	164	297	2,522	2,819	17.2
Cobalt Mines Hospital	Cobalt	617	52	7,960	8,012	13.0
Lady Minto Hospital	Cochrane	469	453	7,406	7,859	16.7
General and Marine Hospital	Collingwood	654	538	11,988	12,526	19.0
General Hospital	Cornwall	593	628	8,963	9,591	16.2
Hotel Dieu Hospital	"	1,593	1,213	16,241	17,454	11.0
Red Cross Hospital	Dryden	250	96	2,033	2,129	.....
Haldimand County Memorial Hospital	Dunnville	221	200	1,967	2,167	9.8
General Hospital	Durham	156	.....	1,332	1,332	8.5
Royal Alexandra Hospital	Fergus	337	290	5,717	6,007	17.8
McKellar General Hospital	Fort William	3,680	2,467	37,458	39,925	10.8
General Hospital	Galt	1,301	2,206	20,983	23,189	17.6
General and Marine Hospital	Goderich	219	468	2,331	2,799	12.8
Muskoka Cottage Hospital	Gravenhurst	90	.....	9,158	9,158	101.7
Muskoka Hospital for Consumptives	"	674	.....	94,543	94,543	140.3
General Hospital	Guelph	1,515	1,900	17,559	19,459	12.8
St. Joseph's Hospital	"	1,030	946	14,337	15,283	14.8
City Hospital	Hamilton	8,314	9,135	126,054	135,189	16.3
St. Joseph Hospital	"	3,295	4,096	36,483	40,579	12.3
Mountain Sanatorium	"	409	.....	75,857	75,857	18.5
Memorial Hospital	Hanover	142	186	1,975	2,161	15.2
St. Paul's Hospital	Hearst	108	140	1,082	1,222	5.0
General Hospital	Ingersoll	239	539	2,611	3,150	13.3
General Hospital	Kenora	532	639	7,355	7,994	15.0
St. Joseph's Hospital	"	404	243	5,553	5,796	14.3
General Hospital	Kincardine	253	361	2,496	2,857	11.2
General Hospital	Kingston	4,092	160	58,306	58,466	14.3
Hotel Dieu Hospital	"	2,330	1,734	36,947	38,681	16.6
Kitchener and Waterloo Hospital	Kitchener	1,484	1,820	13,352	15,172	10.2
Freeport Sanatorium	"	99	.....	15,538	15,538	156.9
Ross Memorial Hospital	Lindsay	920	582	8,291	8,873	9.7
Listowel Memorial Hospital	Listowel	200	.....	3,028	3,028	15.1
General Hospital	London	4,204	3,631	76,449	80,080	18.7
St. Joseph's Hospital	"	2,278	6,344	40,475	46,819	20.6
Bethesda Hospital	"	550	2,765	4,860	7,625	13.9
Queen Alexandra Sanatorium	"	599	.....	44,616	44,616	74.5
Victoria Home for Incurables	"	98	.....	24,619	24,619	251.2
Rosedale War Memorial Hospital	Matheson	124	285	815	1,100	8.9
General Hospital	Mattawa	274	.....	5,457	5,457	19.8
General Hospital	Midland	769	907	7,993	8,900	11.6
Mount Forest General Hospital	Mount Forest	123	3	1,182	1,185	9.6
Lady Minto Hospital	New Liskeard	476	422	6,008	6,430	13.5
York County Hospital	Newmarket	185	236	1,803	2,039	11.0
General Hospital	Niagara Falls	1,248	1,747	15,917	17,664	14.2
Cottage Hospital	Niagara-on-the-Lake	122	8	1,418	1,426	11.7
Queen Victoria Hospital	North Bay	702	805	7,015	7,820	11.1
General Hospital	Orangeville	272	431	2,608	3,039	11.2
General Hospital	Orillia	1,165	4,044	8,415	12,459	10.7
General Hospital	Oshawa	1,416	2,361	13,831	16,192	11.4
General Protestant Hospital	Ottawa	3,105	16	49,086	49,102	15.8
Roman Catholic Hospital	"	3,822	.....	55,820	55,820	14.6
Maternity Hospital	"	752	.....	4,796	4,796	6.4
Misericordia Maternity Hospital	"	891	.....	27,299	27,299	30.6
Protestant Infants Hospital	"	249	.....	8,004	8,004	32.1
St. Luke's General Hospital	"	2,488	.....	43,980	43,980	18.5
Salvation Army Maternity Hospital	"	1,425	202	9,546	9,748	6.8
Royal Sanatorium	"	174	.....	24,598	24,598	141.4
Perley Home for Incurables	"	82	.....	20,653	20,653	251.9
General and Marine Hospital	Owen Sound	925	1,131	10,528	11,659	12.6
Willett Hospital	Paris	312	470	3,208	3,678	11.8
Stone Memorial Hospital	Parry Sound	446	403	4,822	5,225	11.7
St. Joseph's Hospital	"	332	355	2,860	3,215	9.7
Cottage Hospital	Pembroke	652	642	8,439	9,081	13.9
General Hospital	"	1,226	820	20,850	21,670	17.7
General Hospital	Penetanguishene	215	299	1,360	1,659	7.7
Great War Memorial Hospital	Perth	357	42	3,817	3,859	10.8

TABLE II.—Showing the collective stay in days of the adult and infant patients, also the average length of time each patient was under treatment.—*Concluded.*

Hospitals.	Location.	No. of patients, including infants born.	Collective stay of infants under one year of age.	Collective stay of adult patients.	Total collective stay of adults and infants.	Average stay of each patient, including infants.
Nicholl's Hospital	Peterborough	1,452	2,291	17,159	19,450	13.4
St. Joseph's Hospital	"	1,004	1,183	12,849	14,032	14 0
C. E. Englehart Hospital	Petrolea	307	472	4,393	4,865	15.8
Prince Edward County Hospital	Picton	221	226	1,843	2,069	9.4
General Hospital	Port Arthur	1,072	1,078	11,563	12,641	11.1
St. Joseph's Hospital	"	1,462	383	15,401	15,784	17 9
General Hospital	Port Hope	369	589	4,230	4,819	13.1
Victoria General Hospital	Renfrew	565	499	6,030	6,529	11 6
General and Marine Hospital	St. Catharines	1,447	2,794	16,657	18,451	13.4
Consumptive Sanatorium	"	40	.....	6,028	6,028	150.7
Amasa Wood Hospital	St. Thomas	1,061	1,835	10,009	11,844	11.2
Essex County Sanatorium	Sandwich	111	.....	20,504	20,504	184 7
General Hospital	Sarnia	876	1,306	10,678	11,984	13.7
Plummer Memorial Hospital	Sault Ste. Marie	701	.....	6,834	6,834	9.7
General Hospital	"	1,135	600	13,818	14,418	12 7
General Hospital	Sioux Lookout	441	219	3,298	3,517	8.0
Public Hospital	Smith's Falls	640	1,015	8,207	9,222	14 4
St. Francis Hospital	"	503	470	7,590	8,060	16.0
General Hospital	Stratford	1,147	1,712	14,800	16,512	14 4
General Hospital	Strathroy	388	455	5,504	5,959	15.3
St. Joseph's Hospital	Sudbury	2,302	1,028	29,496	30,524	13.2
General Hospital	Toronto	13,306	.....	211,217	211,217	15.9
Grace Hospital	"	2,906	135	37,170	37,305	12 8
Hospital for Sick Children	"	6,397	.....	87,860	87,860	13.7
St. John's Hospital	"	1,401	11	16,424	16,435	11.7
St. Joseph's Hospital	"	1,800	.....	29,558	29,558	16.4
St. Michael's Hospital	"	4,999	.....	89,157	89,157	18.0
Salvation Army Maternity Hospital	"	723	5,033	7,464	12,497	17.3
Orthopedic Hospital	"	608	40	6,709	6,749	11.1
Wellesley Hospital	"	2,150	3,885	26,025	29,910	13.9
Western Hospital	"	4,883	4,107	67,960	72,067	14 8
Women's College Hospital	"	1,253	.....	12,321	12,321	9.8
The Preventorium	"	199	.....	20,218	20,218	101.6
Toronto Hospital for Incurables	"	278	.....	81,287	81,287	292.4
Hospital for Incurable Children	"	44	.....	13,964	13,964	317.4
General Hospital	Walkerton	200	129	2,681	2,810	14 0
General Hospital	Welland	702	650	9,310	9,960	14.2
Toronto Hospital for Consumptives King Edward Sanatorium Queen Mary Hospital for Children	Weston	567	.....	114,584	114,584	202.1
Hotel Dieu Hospital	Windsor	2,859	3,844	30,689	34,533	12.1
Grace Hospital	"	2,229	2,833	20,322	23,150	10.4
General Hospital	Wingham	296	345	2,304	2,649	8.9
General Hospital	Woodstock	890	1,254	10,610	11,864	13.3
Totals for 1924		145,201	112,854	2,496,974	2,609,828	18.6
Totals for 1923		139,719	115,994	2,410,138	2,526,132	18.0

TABLE III.—Showing the deductions which have to be made from the collective stay of patients for the protracted residence of incurables, lying-in cases, etc. For persons coming within these classes only ten cents per day is allowed.

Hospitals.	Location	Collective days' stay, exclusive of infants under one year of age.	Deduct for incurables and lying-in cases for which only Refuge rate is allowed, also, deduct the days' stay of patients who paid over $10.50 per week.	No. of days' stay for which hospital allowance is made.
Rosamond Memorial Hospital	Almonte	2,255	1,028	1,227
Royal Victoria Hospital	Barrie	7,425	4,626	2,799
General Hospital	Belleville	15,734	11,203	4,531
General Hospital	Bowmanville	4,487	2,965	1,522
General Hospital	Brantford	37,590	12,585	25,005
Brant Sanatorium	"	14,568	.....	14,568
General Hospital	Brockville	16,970	11,312	5,658
St. Vincent de Paul Hospital	"	16,608	12,633	3,975
General Hospital	Chatham	16,593	6,888	9,705
St. Joseph's Hospital	"	11,037	7,977	3,060
Lady Minto Hospital	Chapleau	3,627	857	2,770
Cottage Hospital	Cobourg	4,782	2,282	2,500
Public Hospital	Clinton	2,522	978	1,544
Cobalt Mines Hospital	Cobalt	7,960	461	7,499
Lady Minto Hospital	Cochrane	7,406	2,402	5,004
General and Marine Hospital	Collingwood	11,988	5,752	6,236
General Hospital	Cornwall	8,963	4,420	4,543
Hotel Dieu Hospital	"	16,241	2,693	13,548
Red Cross Hospital	Dryden	2,033	38	1,995
Haldimand County Memorial Hospital	Dunnville	1,967	.....	1,967
General Hospital	Durham	1,332	.....	1,332
Royal Alexandra Hospital	Fergus	5,717	3,934	1,783
McKellar General Hospital	Fort William	37,458	19,845	17,613
General Hospital	Galt	20,983	14,167	6,816
General and Marine Hospital	Goderich	2,331	1,494	837
Muskoka Cottage Hospital	Gravenhurst	9,158	9,158	.....
Muskoka Hospital for Consumptives	"	94,543	.....	94,543
General Hospital	Guelph	17,559	8,184	9,375
St. Joseph's Hospital	"	14,337	4,268	10,069
City Hospital	Hamilton	126,054	33,361	92,693
St. Joseph's Hospital	"	36,483	19,497	16,986
Mountain Sanatorium	"	75,857	.....	75,857
Memorial Hospital	Hanover	1,975	19	1,956
St. Paul's Hospital	Hearst	1,082	.....	1,082
General Hospital	Ingersoll	2,611	1,648	963
General Hospital	Kenora	7,355	3,479	3,876
St. Joseph's Hospital	"	5,553	1,460	4,093
General Hospital	Kincardine	2,496	1,328	1,168
General Hospital	Kingston	58,306	27,944	30,362
Hotel Dieu Hospital	"	36,947	14,997	21,950
Kitchener and Waterloo Hospital	Kitchener	13,352	7,465	5,887
Freeport Sanatorium	"	15,538	.....	15,538
Ross Memorial Hospital	Lindsay	8,291	4,690	3,601
Listowel Memorial Hospital	Listowel	3,028	.....	3,028
General Hospital	London	76,449	49,700	26,749
St. Joseph's Hospital	"	40,475	32,817	7,658
Bethesda Hospital	"	4,860	158	4,702
Queen Alexandra Sanatorium	"	44,616	.....	44,616
Victoria Home for Incurables	"	24,619	.....	24,619
Rosedale War Memorial Hospital	Matheson	815	.....	815
General Hospital	Mattawa	5,457	759	4,698
General Hospital	Midland	7,993	3,934	4,059
Mount Forest General Hospital	Mount Forest	1,182	.....	1,182
Lady Minto Hospital	New Liskeard	6,008	5,165	843
York County Hospital	Newmarket	1,803	380	1,423
General Hospital	Niagara Falls	15,917	6,558	9,359
Cottage Hospital	Niagara-on-the-Lake	1,418	248	1,170
Queen Victoria Hospital	North Bay	7,015	2,718	4,297
General Hospital	Orangeville	2,608	1,727	881
General Hospital	Orillia	8,415	15	8,400
General Hospital	Oshawa	13,831	8,188	5,643
General Protestant Hospital	Ottawa	49,086	28,280	20,806
Roman Catholic Hospital	"	55,820	31,523	24,297
Maternity Hospital	"	4,796	3,372	1,424
Misericordia Maternity Hospital	"	27,299	23,830	3,469
Protestant Infants' Hospital	"	8,004	2,017	5,987
St. Luke's General Hospital	"	43,980	26,041	17,939
Salvation Army Maternity Hospital	"	9,546	113	9,433
Royal Sanatorium	"	24,598	.....	24,598
Perley Home for Incurables	"	20,653	.....	20,653
General and Marine Hospital	Owen Sound	10,528	6,388	4,140
Willett Hospital	Paris	3,208	163	3,045
Stone Memorial Hospital	Parry Sound	4,822	1,358	3,464
St. Joseph's Hospital	"	2,860	.....	2,860
Cottage Hospital	Pembroke	8,439	3,967	4,472
General Hospital	"	20,850	9,140	11,710

TABLE III—Showing the deductions which have to be made from the collective stay of patients for the protracted residence of incurables, lying-in cases, etc. For persons coming within these classes only ten cents per day is allowed.—*Concluded.*

Hospitals.	Location	Collective days' stay, exclusive of infants under one year of age.	Deduct for incurables and lying-in cases for which only Refuge rate is allowed, also, deduct the days' stay of patients who paid over $10.50 per week.	No. of days' stay for which hospital allowance is made.
General Hospital	Penetanguishene	1,360	415	945
Great War Memorial Hospital	Perth	3,817	3	3,814
Nicholl's Hospital	Peterborough	17,159	12,284	4,875
St. Joseph's Hospital	"	12,849	3,884	8,965
C. E. Englehart Hospital	Petrolea	4,393	2,839	1,554
Prince Edward County Hospital	Picton	1,843	.....	1,843
General Hospital	Port Arthur	11,563	4,312	7,251
St. Joseph's Hospital	"	15,401	5,013	10,388
General Hospital	Port Hope	4,230	2,140	2,090
Victoria General Hospital	Renfrew	6,030	2,839	3,191
General and Marine Hosiptal	St. Catharines	16,657	12,099	4,558
Consumptive Sanatorium	"	6,028	.....	6,028
Amasa Wood Hospital	St. Thomas	10,009	5,901	4,108
Essex County Sanatorium	Sandwich	20,504	.....	20,504
General Hospital	Sarnia	10,678	6,056	4,622
Plummer Memorial Hospital	Sault Ste. Marie	6,834	62	6,772
General Hospital	"	13,818	5,079	8,739
General Hospital	Sioux Lookout	3,298	.....	3,298
Public Hospital	Smith's Falls	8,207	3,152	5,055
St. Francis Hospital	"	7,590	3,816	3,774
General Hospital	Stratford	14,800	9,341	5,459
General Hospital	Strathroy	5,504	1,597	3,907
St. Joseph's Hospital	Sudbury	29,496	10,047	19,449
General Hospital	Toronto	211,217	80,295	130,922
Grace Hospital	"	37,170	14,799	22,371
Hospital for Sick Children	"	87,860	18,029	69,831
St. John's Hospital	"	16,424	1,031	15,393
St. Joseph's Hospital	"	29,558	1,987	27,571
St. Michael's Hospital	"	88,157	25,567	62,590
Salvation Army Maternity Hospital	"	7,464	183	7,281
Orthopedic Hospital	"	6,709	3,880	2,829
Wellesley Hospital	"	26,025	25,440	585
Western Hospital	"	67,960	25,699	42,261
Women's College Hospital	"	12,321	24	12,297
The Preventorium	"	20,218	.....	20,218
Toronto Hospital for Incurables	"	81,287	.....	81,287
Hospital for Incurable Children	"	13,964	.....	13,964
General Hospital	Walkerton	2,681	1,858	823
General Hospital	Welland	9,310	3,652	5,658
Toronto Hospital for Consumptives King Edward Sanatorium Queen Mary Hospital for Children	Weston	114,584	.....	114,584
Hotel Dieu Hospital	Windsor	30,689	10,377	20,312
Grace Hospital	"	20,322	495	19,827
General Hospital	Wingham	2,304	2,136	168
General Hospital	Woodstock	10,610	6,455	4 155
Totals for 1924		2,495,974	829,383	1,666,591
Totals for 1923		2,533,204	923,075	1,610,129

TABLE IV.—Relative to Income of Hospitals.

Hospitals	Location	Amount received from municipalities as a grant and for patients' maintenance.	Amount received from patients for board.	Amount received as income from property or investments belonging to hospital.	Subscriptions and donations of private individuals and incidental receipts.	Total receipts from all sources other than the Government grant.
		$ c.	$ c.	$ c.	$ c.	$ c.
Rosamond Memorial	Almonte	560 00	6,904 60	691 28	1,137 99	9,293 87
Royal Victoria Hospital	Barrie	850 00	19,258 80	476 98	1,571 36	22,157 14
General Hospital	Belleville	14,339 67	35,356 70	.....	9,534 30	59,230 67
General Hospital	Bowmanville	1,250 00	12,460 60	74 25	486 35	14,271 20
General Hospital	Brantford	43,353 58	55,902 05	180 00	7,596 23	107,031 86
Brant Sanatorium	"	16,015 18	1,794 95	.....	167 75	17,977 88
General Hospital	Brockville	2,500 00	40,017 55	1,588 44	625 50	44,731 49
St. Vincent de Paul Hospital	"	2,652 35	35,123 45	.....	7,528 71	45,304 51
General Hospital	Chatham	3,589 09	45,298 72	.....	874 50	49,762 31
St. Joseph's Hospital	"	2,611 60	27,843 54	.....	1,053 69	31,508 83
Lady Minto Hospital	Chapleau	300 00	6,941 70	.....	5,874 68	13,116 38
Cottage Hospital	Cobourg	1,550 00	13,800 04	.....	963 27	16,313 31
Public Hospital	Clinton	/ 1,000 00	5,565 47	.....	794 88	7,360 35
Cobalt Mines Hospital	Cobalt	1,145 00	10,421 01	.....	14,772 07	26,338 08
Lady Minto Hospital	Cochrane	3,873 00	12,610 23	.....	3,393 11	19,876 34
General and Marine Hospital	Collingwood	2,000 00	24,443 31	.....	647 06	27,090 37
General Hospital	Cornwall	2,800 00	21,680 55	1,870 33	10,323 13	36,674 01
Hotel Dieu Hospital	"	2,800 00	16,542 73	.....	4,638 03	23,980 76
Red Cross Hospital	Dryden	.....	5,375 37	.....	.....	5,375 37
Haldimand Co. Mem. Hospital	Dunnville	1,200 00	7,830 42	.....	1,300 07	10,330 49
General Hospital	Durham	500 00	4,324 07	.....	553 10	5,377 17
Royal Alexandria Hospital	Fergus	1,592 50	12,983 60	.....	607 64	15,183 74
McKellar General Hospital	Fort William	26,235 70	72,285 39	.....	2,394 73	100,915 82
General Hospital	Galt	10,500 00	32,889 71	271 50	2,798 14	46,459 35
General and Marine Hospital	Goderich	1,375 00	4,946 78	.....	1,440 56	7,762 34
Muskoka Cottage Hopital	Gravenhurst	.....	44,002 99	781 26	258 24	45,042 49
Muskoka Hosp. for Consumptives	"	95,880 77	29,509 32	27,147 65	56,635 20	209,172 94
General Hospital	Guelph	3,886 25	45,910 63	.....	810 85	50,607 73
St. Joseph's Hospital	"	3,784 50	22,841 61	.....	143 13	26,769 24
City Hospital	Hamilton	182,921 35	169,824 42	.....	.....	352,745 77
St. Joseph's Hospital	"	3,934 50	106,228 38	.....	731 07	110,893 95
Mountain Sanatorium	"	63,472 35	38,207 81	1,081 06	89,339 29	192,100 51
Memorial Hospital	Hanover	750 00	4,924 10	600 00	647 80	6,921 90
St. Paul's Hospital	Hearst	.....	2,188 59	.....	1,310 72	3,499 31
General Hospital	Ingersoll	1,800 00	6,609 00	.....	2,555 05	10,964 05
General Hospital	Kenora	950 00	11,464 36	.....	845 78	13,260 14
St. Joseph's Hospital	"	.....	8,910 98	882 48	3,308 32	13,101 78
General Hospital	Kincardine	2,000 00	4,825 76	.....	1,231 22	8,056 98
General Hospital	Kingston	21,080 00	100,068 58	.....	5,922 96	127,071 54
Hotel Dieu Hospital	"	7,200 00	54,835 79	.....	15,724 33	77,760 12
Kitchener and Waterloo Hospital	Kitchener	16,129 20	39,665 01	1,396 50	1,074 01	58,264 72
Freeport Sanatorium	"	8,000 00	25,140 80	.....	2,486 38	35,622 18
Ross Memorial Hospital	Lindsay	1,700 00	16,815 92	2,000 00	5,219 99	25,735 91
Listowel Memorial Hospital	Listowel	1,450 00	7,339 20	.....	749 29	9,538 49
General Hospital	London	153,167 75	173,800 09	685 98	9,647 18	337,301 00
St. Joseph's Hospital	"	2,041 50	103,843 54	.....	2,483 64	108,368 68
Bethesda Hospital	"	2,025 00	9,898 59	.....	7,283 88	19,207 47
Queen Alexandra Sanatorium	"	47,347 50	25,022 50	3,399 31	148,280 99	224,050 30
Victoria Home for Incurables	"	18,511 50	13,343 82	933 01	276 10	33,064 43
Rosedale War Memorial Hospital	Matheson	.....	1,245 00	.....	3,120 00	4,365 00
General Hospital	Mattawa	100 00	6,888 63	.....	2,764 54	9,753 17
General Hospital	Midland	500 00	17,189 01	.....	853 74	18,542 75
Mount Forest General Hospital	Mount Forest	282 25	4,223 93	.....	909 23	5,415 41
Lady Minto Hospital	New Liskeard	.....	13,562 16	.....	4,435 54	17,997 70
York County Hospital	Newmarket	507 50	5,052 28	.....	1,680 36	7,240 14
General Hospital	Niagara Falls	3,250 00	42,502 90	.....	4,544 68	50,297 58
Cottage Hospital	Niag.-on-the-L.	1,032 00	2,375 84	.....	551 87	3,959 71
Queen Victoria Hospital	North Bay	2,138 50	19,308 64	31 65	1,383 61	22,862 40
General Hospital	Orangeville	1,106 55	8,975 92	.....	2,119 38	12,201 85
General Hospital	Orillia	2,742 61	31,080 71	.....	83 61	33,906 93
General Hospital	Oshawa	2,930 17	41,826 14	.....	5,080 02	49,836 33
General Protestant Hospital	Ottawa	28,125 80	122,970 24	.....	5,026 21	156,122 25
Roman Catholic Hospital	"	26,915 25	93,796 88	2,865 50	54,574 23	178,151 86
Maternity Hospital	"	2,160 00	18,648 42	.....	3,768 00	24,576 42
Misericordia Maternity Hospital	"	3,375 00	11,642 00	.....	16,867 48	31,884 48
Protestant Infants' Hospital	"	8,121 00	1,708 75	13 75	3,533 44	13,376 94
St. Luke's General Hospital	"	18,739 00	108,975 12	1,417 52	274 00	129,405 64
Salvation Army Maternity Hosp.	"	1,160 00	25,424 41	200 00	2,247 00	29,031 41
Royal Sanatorium	"	32,644 74	3,389 09	.....	.....	36,033 83
Perley Home for Incurables	"	2,970 00	13,060 61	142 50	566 00	16,739 11
General and Marine Hospital	Owen Sound	2,981 50	24,700 00	.....	3,349 01	31,030 51
Willett Hospital	Paris	1,500 00	6,772 80	683 17	2,906 36	11,862 33
Stone Memorial Hospital	Parry Sound	.....	5,562 82	.....	1,490 40	7,053 22
St. Joseph's Hospital	"	30 00	5,866 87	.....	6 00	5,902 87
Cottage Hospital	Pembroke	3,297 56	17,438 64	1,410 75	587 74	22,734 69
General Hospital	"	7,311 20	24,602 71	180 00	5,434 44	37,528 35
General Hospital	Penetang'shene	2,100 00	3,515 25	.....	1,165 00	6,780 25
Great War Memorial Hospital	Perth	.....	13,386 77	.....	201 70	13,588 47
Nicholl's Hospital	Peterborough	7,200 00	41,608 06	11,523 96	54 95	60,386 97

TABLE IV.—Relative to Income of Hospitals.—*Concluded.*

Hospitals	Location	Amount received from municipalities as a grant and for patients' maintenance.	Amount received from patients for board.	Amount received as income from property or investments belonging to hospital.	Subscriptions and donations of private individuals and incidental receipts.	Total receipts from all sources other than the Government grant.
		$ c.	$ c.	$ c.	$ c.	$ c
St. Joseph's Hospital	Peterborough	1,785 00	24,465 95	.....	.....	26,250 95
C. E. Englehart Hospital	Petrolea	2,350 00	10,844 93	2,400 00	890 00	16,484 93
Prince Edward County Hospital	Picton	1,500 00	7,499 39	.....	2,047 02	11,046 41
General Hospital	Port Arthur	6,192 16	25,306 29	.....	3,072 93	34,571 38
St. Joseph's Hospital	"	4,893 35	32,677 90	300 00	5,448 65	43,319 90
General Hospital	Port Hope	1,650 00	7,870 74	1,117 06	1,189 87	11,827 67
Victoria General Hospital	Renfrew	2,246 40	11,772 02	.....	839 54	14,857 96
General and Marine Hospital	St. Catharines	3,148 50	41,645 43	442 59	928 96	46,165 48
Consumptive Sanatorium	"	7,103 00	598 30	305 60	45 00	8,051 90
Amasa Wood Hospital	St. Thomas	4,000 00	32,325 10	394 16	83 05	36,802 31
Essex County Sanatorium	Sandwich	13,014 65	8,994 25	3,743 42	8,223 99	33,976 31
General Hospital	Sarnia	7,300 00	28,909 38	3,102 00	178 41	39,489 79
Plummer Memorial Hospital	Sault Ste. Marie	840 50	16,567 75	.....	4,087 87	21,496 12
General Hospital	" "	1,156 85	32,259 86	.....	6,107 20	39,523 91
General Hospital	Sioux Lookout	.....	10,977 95	.....	50 00	11,027 95
Public Hospital	Smith's Falls	1,450 00	21,102 52	1,991 10	6,913 80	31,457 42
St. Francis' Hospital	"	800 00	15,300 20	.....	3,274 75	19,374 95
General Hospital	Stratford	5,720 00	40,140 99	181 49	5,905 14	51,947 62
General Hospital	Strathroy	3,284 50	13,231 72	.....	60 66	16,576 88
St. Joseph's Hospital	Sudbury	1,772 15	60,694 52	.....	6,181 50	68,648 17
General Hospital	Toronto	127,902 40	632,948 60	66,063 73	25,039 01	851,953 74
Grace Hospital	"	22,743 50	102,528 25	2,922 78	14,166 10	142,360 63
Hospital for Sick Children	"	115,070 93	68,392 92	21,215 03	83,154 02	287,832 90
St. John's Hospital	"	14,893 06	62,419 02	452 75	8,791 62	86,556 45
St. Joseph's Hospital	"	20,518 50	55,281 20	.....	.....	75,799 70
St. Michael's Hospital	"	82,769 63	151,272 24	.....	2,741 05	236,782 92
Salvation Army Maternity Hosp.	"	.....	14,116 25	.....	2,981 71	17,097 96
Orthopedic Hospital	"	.....	22,275 80	84 00	17,768 27	40,128 07
Wellesley Hospital	"	983 50	185,233 19	.....	.....	186,216 69
Western Hospital	"	45,966 68	169,133 82	.....	31,811 03	246,911 53
Women's College Hospital	"	9,309 90	39,276 03	154 37	2,527 81	51,268 11
The Preventorium	"	29,027 25	.....	.....	652 50	29,679 75
Toronto Hospital for Incurables	"	99,163 50	25,535 95	5,713 80	5,580 58	135,993 83
Hospital for Incurable Children	"	1,580 50	2,282 80	4,030 00	10,999 48	18,892 78
General Hospital	Walkerton	2,200 00	9,143 41	.....	979 27	12,322 68
General Hospital	Welland	2,100 00	24,207 01	.....	1,675 90	27,982 91
Toronto Hosp. for Consumptives, King Edward Sanatorium, Queen Mary Hosp. for Children	Weston	147,586 40	13,794 89	15,630 14	35,613 81	212,625 24
Hotel Dieu Hospital	Windsor	5,901 00	42,616 72	.....	26,078 66	74,596 38
Grace Hospital	"	2,596 50	69,051 21	.....	13,496 92	85,144 63
General Hospital	Wingham	1,400 00	8,342 25	.....	396 96	10,139 21
General Hospital	Woodstock	5,000 00	27,646 23	1,456 05	1,243 96	35,346 24
Totals for 1924	.....	1,752,765 78	4,503,806 71	194,228 90	908,847 81	7,359,649 20
Totals for 1923	.....	1,671,071 73	4,336,337 40	152,721 55	959,015 83	7,119,146 51

TABLE V.—Showing the basis upon which Statutory Aid is granted.

Hospital.	Location.	Collective days' stay upon which Hospital grants are based.	Amount of grant for proper Hospital cases.	Collective days' stay upon which computation of Refugee rate is based	Computation of 10 cents per day Refuge rate for cases for Hospital treatment over time allowance.	Days at $2.00 per day.		Amount payable to each Hospital from appropriation by the Legislature of 1924.
			$ c.		$ c.		$ c.	$ c.
Rosamond Memorial Hospital	Almonte	1,227	613 50					613 50
Royal Victoria Hospital	Barrie	2,799	1,399 50	651	65 10			1,464 60
General Hospital	Belleville	4,531	2,265 50			71	142 00	2,407 50
General Hospital	Bowmanville	1,522	761 00	474	47 40			808 40
General Hospital	Brantford	25,005	12,502 50	2,495	249 50			12,752 00
General Hospital	Brockville	5,658	2,829 00	1,137	113 70			2,942 70
St. Vincent de Paul Hospital	"	3,975	1,987 50	284	28 40			2,015 90
General Hospital	Chatham	9,705	4,852 50	284	28 40			4,880 90
St. Joseph's Hospital	"	3,060	1,530 00	541	54 10			1,584 10
Lady Minto Hospital	Chapleau	2,770	1,385 00	3	30	484	968 00	2,353 30
Cottage Hospital	Cobourg	2,500	1,250 00	238	23 80			1,273 80
Public Hospital	Clinton	1,544	772 00	978	97 80			869 80
Cobalt Mines Hospital	Cobalt	7,499	3,749 50	234	23 40			3,772 90
Lady Minto Hospital	Cochrane	5,004	2,502 00	280	28 00	1,392	2,784 00	5,314 00
General and Marine Hospital	Collingwood	6,236	3,118 00	1,995	199 50			3,317 50
General Hospital	Cornwall	4,543	2,271 50	67	6 70			2,278 20
Hotel Dieu Hospital	"	13,548	6,774 00	62	6 20			6,780 20
Red Cross Hospital	Dryden	1,995	997 50	38	3 80			1,001 30
Haldimand County Memorial Hospital	Dunnville	1,967	983 50					983 50
General Hospital	Durham	1,332	666 00					666 00
Royal Alexandra Hospital	Fergus	1,783	891 50	321	32 10			923 60
McKellar General Hospital	Fort William	17,613	8,806 50	5,629	562 90	1,873	3,746 00	13,115 40
General Hospital	Galt	6,816	3,408 00	5,667	566 70			3,974 70
General and Marine Hospital	Goderich	837	418 50	53	5 30			423 80
General Hospital	Guelph	9,375	4,687 50					4,687 50
St. Joseph's Hospital	"	10,069	5,034 50	421	42 10			5,076 60
City Hospital	Hamilton	92,693	46,346 50	7,889	788 90			47,135 40
St. Joseph's Hospital	"	16,986	8,493 00	959	95 90			8,588 90
Memorial Hospital	Hanover	1,956	978 00	19	1 90			979 90
St. Paul's Hospital	Hearst	1,082	541 00					541 00
General Hospital	Ingersoll	963	481 50					481 50

General Hospital	Kenora	3,876	1,938 00	89	8 90	483	966 00	2,912 90
St. Joseph's Hospital	"	4,093	2,046 50	175	17 50			2,064 00
General Hospital	Kincardine	1,168	584 00	168	16 80			600 00
General Hospital	Kingston	30,362	15,181 00	4,632	463 20			15,644 20
Hotel Dieu Hospital	"	21,950	10,975 00	860	86 00			11,061 00
Kitchener and Waterloo Hospital	Kitchener	5,887	2,943 50	256	25 60			2,969 10
Ross Memorial Hospital	Lindsay	3,601	1,800 50	111	11 10			1,811 60
Listowel Memorial Hospital	Listowel	3,028	1,514 00					1,514 00
General Hospital	London	26,749	13,374 50	5,942	594 20			13,968 70
St. Joseph's Hospital	"	7,658	3,829 00	4,461	446 10			4,275 10
Bethesda Hospital	"	4,702	2,351 00	158	15 80			2,366 80
Victoria Home for Incurables	"	24,619	12,309 50					12,309 50
Rosedale War Memorial Hospital	Matheson	815	407 50					407 50
General Hospital	Mattawa	4,698	2,349 00	19	1 90	432	864 00	3,214 90
General Hospital	Midland	4,059	2,029 50	251	25 10			2,054 60
Mount Forest General Hospital	Mount Forest	1,182	591 00					591 00
Lady Minto Hospital	New Liskeard	843	421 50			904	1,808 00	2,229 50
York County Hospital	Newmarket	1,423	711 50	380	38 00			749 50
General Hospital	Niagara Falls	9,359	4,679 50	1,979	197 90			4,877 40
Cottage Hospital	Niagara-on-the-Lake	1,170	585 00	248	24 80			609 80
Queen Victoria Hospital	North Bay	4,297	2,148 50			26	52 00	2,200 50
General Hospital	Orangeville	881	440 50					440 50
General Hospital	Orillia	8,400	4,200 00	15	1 50			4,201 50
General Hospital	Oshawa	5,643	2,821 50					2,821 50
General Protestant Hospital	Ottawa	20,806	10,403 00	2,247	224 70			10,627 70
Roman Catholic Hospital	"	24,297	12,148 50	3,730	373 00			12,521 50
Maternity Hospital	"	1,424	712 00					712 00
Misericordia Maternity Hospital	"	3,469	1,734 50	15,610	1,561 00			3,295 50
Protestant Infants' Hospital	"	5,987	2,993 50	2,017	201 70			3,195 20
St. Luke's General Hospital	"	17,939	8,969 50	686	68 60			9,038 10
Salvation Army Maternity Hospital	"	9,433	4,716 50	113	11 30			4,727 80
Perley Home for Incurables	"	20,653	10,326 50					10,326 50
General Marine Hospital	Owen Sound	4,140	2,070 00	439	43 90			2,113 90
Willett Hospital	Paris	3,045	1,522 50	163	16 30			1,538 80
Stone Memorial Hospital	Parry Sound	3,464	1,732 00	296	29 60			1,761 60
St. Joseph's Hospital	"	2,860	1,430 00					1,430 00
Cottage Hospital	Pembroke	4,472	2,236 00	319	31 90			2,267 90
General Hospital	"	11,710	5,855 00	1,423	142 30			5,997 30
General Hospital	Penetanguishene	945	472 50					472 50
Great War Memorial Hospital	Perth	3,814	1,907 00	3	30			1,907 30
Nicholl's Hospital	Peterborough	4,875	2,437 50	3,127	312 70			2,750 20
St. Joseph's Hospital	"	8,965	4,482 50	142	14 20			4,496 70
C. E. Englehart Hospital	Petrolea	1,554	777 00	207	20 70			797 70
Prince Edward County Hospital	Picton	1,843	921 50					921 50
General Hospital	Port Arthur	7,251	3,625 50	369	36 90	146	292 00	3,954 40

TABLE V.—Showing the basis upon which Statutory Aid is granted.—*Concluded.*

Hospital.	Location.	Collective days' stay upon which Hospital grants are based.	Amount of grant for proper Hospital cases.	Collective days' stay upon which computation of Refugeeis based	Computation of 10 cents per day Refuge rate for cases for Hospital treatment over time allowance.	Days at $2.00 per day.		Amount payable to each Hospital from appropriation by the Legislature of 1924.
			$ c.		$ c.		$ c.	$ c.
St. Joseph's Hospital	Port Arthur	10,388	5,194 00	383	38 30	213	426 00	5,658 30
General Hospital	Port Hope	2,090	1,045 00	941	94 10			1,139 10
Victoria General Hospital	Renfrew	3,191	1,595 50	444	44 40			1,639 90
General and Marine Hospital	St. Catharines	4,558	2,279 00	2,015	201 50			2,480 50
Amasa Wood Hospital	St. Thomas	4,108	2,054 00	60	6 00			2,060 00
General Hospital	Sarnia	4,622	2,311 00	608	60 80			2,371 80
Plummer Memorial Hospital	Sault Ste. Marie	6,772	3,386 00	62	6 20			3,392 20
General Hospital	"	8,739	4,369 50	558	55 80	632	1,264 00	5,689 30
General Hospital	Sioux Lookout	3,298	1,649 00					1,649 00
Public Hospital	Smith's Falls	5,055	2,527 50	414	41 40			2,568 90
St. Francis Hospital	"	3,774	1,887 00	366	36 60			1,923 60
General Hospital	Stratford	5,459	2,729 50	270	27 00			2,756 50
General Hospital	Strathroy	3,907	1,953 50	405	40 50			1,994 00
St. Joseph's Hospital	Sudbury	19,449	9,724 50	755	75 50	2,786	5,572 00	15,372 00
General Hospital	Toronto	130,922	65,461 00	10,278	1,027 80	2,476	4,952 00	71,440 80
Grace Hospital	"	22,371	11,185 50	779	77 90			11,263 40
Hospital for Sick Children	"	69,831	34,915 50	13,518	1,351 80	51	102 00	36,369 30
St. John's Hospital	"	15,393	7,696 50	1,031	103 10			7,799 60
St. Joseph's Hospital	"	27,571	13,785 50	1,987	198 70			13,984 20
St. Michael's Hospital	"	62,590	31,295 00	5,840	584 10	661	1,322 00	33,201 10
Salvation Army Women's Hospital	"	7,281	3,640 50	183	18 30			3,658 80
Orthopedic Hospital	"	2,829	1,414 50	383	38 30			1,452 80
Wellesley Hospital	"	585	292 50	20	2 00			294 50
Western Hospital	"	42,261	21,130 50	3,780	378 00	347	694 00	22,202 50
Woman's College Hospital	"	12,297	6,148 50	24	2 40			6,150 90
Toronto Hospital for Incurables	"	81,287	40,643 50					40,643 50
Home for Incurable Children	"	13,964	6,982 00					6,982 00
General Hospital	Walkerton	823	411 50					411 50
General Hospital	Welland	5,658	2,829 00	105	10 50			2,839 50
Hotel Dieu Hospital	Windsor	20,312	10,156 00	410	41 00			10,197 00
Grace Hospital	"	19,827	9,913 50	495	49 50			9,963 00

General Hospital	Wingham	168	84 00					84 00
General Hospital	Woodstock	4,155	2,077 50	316	31 60			2,109 10
Totals for 1924		1,235,537	617,768 50	127,785	12,778 50	12,977	25,954 00	656,501 00
Totals for 1923		1,214,730	607,365 00	108,298	10,829 80	11,377	22,754 00	640,948 80

Sanatoria.	Location.	Collective days' stay of patients.	Amount of grant to each institution at the rate of 75 cents per day.
			$ c.
Brant Sanatorium	Brantford	14,568	10,926 00
Muskoka Hospital for Consumptives	Gravenhurst	94,543	70,907 25
Mountain Sanatorium	Hamilton	75,857	56,892 75
Freeport Sanatorium	Kitchener	15,538	11,653 50
Queen Alexandra Sanatorium	London	44,616	33,462 00
Royal Sanatorium	Ottawa	24,598	18,448 50
Consumptive Sanatorium	St. Catharines	6,028	4,521 00
Essex County Sanatorium	Sandwich	20,504	15,378 00
The Preventorium	Toronto	20,218	15,163 50
Toronto Hospital for Consumptives Queen Mary Hospital for Children	Weston	114,584	85,938 00
Totals for 1924		431,054	323,290 50
Totals for 1923		395,399	296,549 25

TABLE VI.—Showing the cost of maintaining the Hospitals, also average daily cost per patient, etc.

Hospitals.	Location.	Collective days' stay, exclusive of infants under one year of age.	Cost of dietaries.	Salaries, fuel, light, medicine, bedding, and all other expenditure on maintenance account.	Total expenditure for maintenance.	Average cost of each patient per day.	Average cost of dietary of each patient per day.
			$ c.	$ c.	$ c.	$ c.	$ c.
Rosamond Memorial Hospital	Almonte	2,255	1,530 86	6,632 26	8,163 12	3 62	67
Royal Victoria Hospital	Barrie	7,425	9,314 81	23,839 75	33,154 56	4 46	1 26
General Hospital	Belleville	15,734	14,032 63	39,051 11	53,083 74	3 44	88
General Hospital	Bowmanville	4,487	3,997 92	12,637 57	16,635 49	3 26	89
General Hospital	Brantford	37,590	25,449 52	91,626 14	117,075 66	3 09	60
Brant Sanatorium	"	14,568	6,258 42	21,443 91	27,702 33	1 90	43
General Hospital	Brockville	16,970	17,068 98	34,597 51	51,666 49	3 04	1 00
St. Vincent de Paul Hospital	"	16,608	17,026 48	27,893 87	44,920 35	2 70	1 02
General Hospital	Chatham	16,593	15,402 44	20,983 73	36,386 17	2 13	93
St. Joseph's Hospital	"	11,037	12,900 30	31,961 75	44,862 05	4 06	1 16
Lady Minto Hospital	Chapleau	3,637	2,862 02	11,135 54	13,997 56	3 85	78
Cottage Hospital	Cobourg	4,782	3,348 07	14,238 45	17,586 52	3 67	70
Public Hospital	Clinton	2,522	1,703 24	6,107 36	7,810 60	3 97	67
Cobalt Mines Hospital	Cobalt	7,960	5,765 77	24,955 20	30,720 97	3 86	72
Lady Minto Hospital	Cochrane	7,406	4,371 21	10,900 18	15,271 39	2 06	58
General and Marine Hospital	Collingwood	11,988	7,581 35	20,299 70	27,881 05	2 31	63
General Hospital	Cornwall	8,963	6,116 92	22,892 49	29,009 41	3 23	68
Hotel Dieu Hospital	"	16,241	11,372 62	19,042 05	30,414 67	1 87	70
Red Cross Hospital	Dryden	2,033	1,554 57	7,474 87	9,029 44	4 44	76
Haldimand County Mem. Hospital	Dunnville	1,967	1,637 96	9,185 98	10,823 94	5 50	83
General Hospital	Durham	1,332	713 42	3,546 51	4,259 93	3 19	53
Royal Alexandra Hospital	Fergus	5,717	4,492 10	10,644 30	15,136 40	2 64	78
McKellar General Hospital	Fort William	37,458	23,484 32	82,987 38	106,471 70	2 84	62
General Hospital	Galt	20,983	12,977 32	31,780 90	44,758 22	2 13	63
General and Marine Hospital	Goderich	2,331	2,265 64	6,201 58	8,467 22	3 63	97
Muskoka Cottage Hospital	Gravenhurst	9,158	7,835 30	20,739 45	28,574 75	3 12	85
Muskoka Hospital for Consumptives	"	94,543	75,788 52	158,690 16	234,478 68	2 47	80
General Hospital	Guelph	17,559	13,691 47	51,164 10	64,855 57	3 69	78
St. Joseph's Hospital	"	14,337	12,275 12	21,742 59	34,017 71	2 31	84
City Hospital	Hamilton	126,054	100,391 36	314,265 48	414,656 84	3 28	79
St. Joseph's Hospital	"	36,483	35,063 59	87,239 46	122,303 05	3 35	96
Mountain Sanatorium	"	75,857	65,462 36	164,124 14	229,586 50	3 02	86
Memorial Hospital	Hanover	1,975	1,661 24	10,975 39	12,636 63	6 39	84
St. Paul's Hospital	Hearst	1,082	1,715 80	1,851 13	3,566 93	3 29	1 58
General Hospital	Ingersoll	2,611	2,351 30	8,406 58	10,757 88	4 89	90
General Hospital	Kenora	7,355	5,622 09	11,415 11	17,037 20	2 31	76
St. Joseph's Hospital	"	5,553	4,200 41	6,806 13	11,006 54	1 98	75
General Hospital	Kincardine	2,496	1,065 66	7,795 67	8,861 33	3 55	42
General Hospital	Kingston	58,306	50,948*71	103,617 01	154,565 72	2 65	87
Hotel Dieu Hospital	"	36,947	31,460 31	64,856 39	96,316 70	2 66	85
Kitchener and Waterloo Hospital	Kitchener	13,352	12,747 43	39,878 46	52,625 89	3 94	95
Freeport Sanatorium	"	15,538	9,164 68	26,513 70	35,678 38	2 29	58
Ross Memorial Hospital	Lindsay	8,291	6,051 45	22,810 92	28,862 37	3 47	72
Listowel Memorial Hospital	Listowel	3,038	1,985 32	7,597 53	9,582 85	3 15	65
General Hospital	London	76,449	88,233 60	265,476 51	353,710 11	4 62	1 15
St. Joseph's Hospital	"	40,475	38,507 41	72,921 71	111,429 12	2 73	93
Bethesda Hospital	"	4,860	7,053 27	25,174 13	32,227 40	6 63	1 45
Queen Alexandra Sanatorium	"	173,258	75,100 76	186,772 69	261,873 45	1 51	43
Victoria Home for Incurables	"	24,619	8,006 11	24,342 14	32,348 25	1 32	32
Rosedale War Memorial Hospital	Matheson	815	1,018 00	4,583 90	5,601 90	6 87	1 24
General Hospital	Mattawa	5,457	3,142 80	9,564 32	12,707 12	2 32	57
General Hospital	Midland	7,993	3,968 12	17,473 29	21,441 41	2 69	49
Mount Forest General Hospital	Mount Forest	1,182	1,013 02	5,675 22	6,688 24	5 65	85
Lady Minto Hospital	New Liskeard	6,008	5,201 55	13,660 92	18,862 47	3 13	86
York County Hospital	Newmarket	1,803	1,311 86	7,191 91	8,503 77	4 71	72
General Hospital	Niagara Falls	15,917	15,223 10	41,775 49	56,998 59	3 57	96
Cottage Hospital	Nia.-on-the-L.	1,418	891 55	3,737 66	4,629 21	3 26	62
Queen Victoria Hospital	North Bay	7,015	7,228 71	26,766 61	33,995 32	4 84	1 03
General Hospital	Orangeville	2,608	2,322 54	10,530 81	12,853 35	4 93	89
General Hospital	Orillia	8,415	7,963 08	19,010 79	26,973 87	3 20	94
General Hospital	Oshawa	13,831	13,853 51	35,982 61	49,836 12	3 60	1 00
General Protestant Hospital	Ottawa	49,086	39,445 74	119,651 06	159,096 80	3 03	80
Roman Catholic Hospital	"	55,820	37,194 44	136,357 38	173,551 82	3 10	66
Maternity Hospital	"	4,796	5,907 47	18,039 58	23,947 05	4 99	1 23
Misericordia Maternity Hospital	"	27,299	12,711 32	42,037 92	54,749 24	2 00	46
Protestant Infants' Hospital	"	8,004	3,037 68	13,028 00	16,065 68	2 00	38
St. Luke's General Hospital	"	43,980	51,158 10	110,262 10	161,420 20	3 67	1 16
Salvation Army Maternity Hospital	"	9,546	9,803 46	25,515 82	35,319 28	3 69	1 02
Royal Sanatorium	"	24,598	11,124 69	42,828 64	53,953 33	2 19	45
Perley Home for Incurables	"	20,653	6,693 76	20,034 49	26,728 25	1 29	32
General and Marine Hospital	Owen Sound	10,528	9,778 63	21,050 51	30,829 14	2 92	92
Willett Hospital	Paris	3,208	1,301 48	9,901 63	11,203 11	3 40	40
Stone Memorial Hospital	Parry Sound	4,822	2,973 26	10,543 59	13,516 85	2 80	61
St. Joseph's Hospital	"	2,860	1,997 66	5,981 71	7,979 37	2 78	69
Cottage Hospital	Pembroke	8,439	5,891 83	21,591 42	27,483 25	3 25	69
General Hospital	"	20,850	8,996 18	29,603 76	38,599 94	1 85	43
General Hospital	Penetang'shene	1,360	1,482 04	5,698 85	7,180 89	5 28	1 09
Great War Memorial Hospital	Perth	3,817	3,415 03	12,072 20	15,487 23	4 05	88

*This includes military patients.

TABLE VI.—Showing the cost of maintaining the Hospitals, also average daily cost per patient, etc.—*Concluded.*

Hospitals.	Location.	Collective days' stay, exclusive of infants under one year of age.	Cost of dietaries.	Salaries, fuel, light, medicine, bedding, and all other expenditure on maintenance account.	Total expenditure for maintenance.	Average cost of each patient per day.	Average cost of dietary of each patient per day.
Nicholl's Hospital	Peterborough	17,159	13,149 46	48,375 55	61,525 01	3 58	76
St. Joseph's Hospital	"	12,849	7,023 05	24,440 23	31,463 28	2 45	53
C. E. Englehart Hospital	Petrolea	4,393	3,227 05	18,311 41	21,538 46	4 89	73
Prince Edward County Hospital	Picton	1,843	1,851 01	8,054 19	9,905 20	5 37	1 00
General Hospital	Port Arthur	11,563	8,281 48	27,154 65	35,436 13	3 68	71
St. Joseph's Hospital	"	15,401	14,456 96	31,781 89	46,238 85	3 00	93
General Hospital	Port Hope	4,230	2,197 04	10,540 10	12,737 14	3 01	51
Victoria General Hospital	Renfrew	6,030	3,458 78	11,371 81	14,830 59	2 46	57
General and Marine Hospital	St. Catharines	16,657	16,905 73	39,332 15	56,237 88	3 38	1 01
Consumptive Sanatorium	" "	6,028	3,768 14	7,465 76	11,233 90	1 86	62
Amasa Wood Hospital	St. Thomas	10,009	9,527 06	28,734 66	38,261 72	3 82	95
Essex County Sanatorium	Sandwich	20,504	8,175 43	31,472 12	39,647 55	1 93	39
General Hospital	Sarnia	10,678	9,362 30	30,941 67	40,303 97	3 77	87
Plummer Memorial Hospital	Sault Ste. Marie	6,834	5,031 20	17,040 88	22,072 08	3 21	73
General Hospital	" "	13,818	11,086 70	32,811 05	43,897 75	4 17	80
General Hospital	Sioux Lookout	3,298	2,897 33	7,770 24	10,667 57	3 23	87
Public Hospital	Smith's Falls	8,207	7,375 21	26,606 23	33,981 44	4 14	89
St. Francis' Hospital	"	7,590	8,438 44	12,728 75	21,167 19	2 77	1 11
General Hospital	Stratford	14,800	14,709 12	38,826 53	53,535 65	3 61	99
General Hospital	Strathroy	5,504	4,243 49	12,095 31	16,338 80	3 11	77
St. Joseph's Hospital	Sudbury	29,496	25,341 51	48,268 40	73,609 91	2 49	86
General Hospital	Toronto	211,217	206,605 35	733,481 66	940,087 01	4 45	97
Grace Hospital	"	37,170	34,936 77	120,598 41	155,535 18	4 18	98
Hospital for Sick Children	"	87,860	47,784 19	301,156 22	348,940 41	3 97	56
St. John's Hospital	"	16,424	28,355 23	59,298 03	87,653 26	5 34	1 73
St. Joseph's Hospital	"	29,558	18,487 33	62,209 37	80,696 70	2 73	62
St. Michael's Hospital	"	88,157	95,649 40	184,430 98	280,080 38	3 17	1 08
Salvation Army Woman's Hospital	"	7,464	5,046 82	11,900 16	16,946 98	2 27	67
Orthopedic Hospital	"	6,709	7,205 35	29,895 03	37,100 38	5 52	1 07
Wellesley Hospital	"	26,025	51,774 07	133,140 72	184,914 79	7 10	1 95
Western Hospital	"	67,960	49,593 14	200,520 64	250,113 78	3 67	72
Women's College Hospital	"	12,321	12,425 49	42,143 45	54,568 94	4 42	1 00
The Preventorium	"	20,218	8,605 58	37,151 60	45,757 18	2 21	42
Toronto Hospital for Incurables	"	81,287	48,541 60	118,257 30	166,798 90	2 04	59
Hospital for Incurable Children	"	13,964	4,838 54	16,861 28	21,699 82	1 55	34
General Hospital	Walkerton	2,681	2,125 13	8,293 60	10,418 73	3 99	79
General Hospital	Welland	9,310	8,313 35	22,659 06	30,972 41	3 32	89
Toronto Hospital for Consumptives, King Edward Sanatorium, Queen Mary Hospital for Children	Weston	114,584	77,509 51	183,677 57	261,187 08	2 28	68
Hotel Dieu Hospital	Windsor	30,689	26,237 55	56,198 85	82,436 40	2 68	85
Grace Hospital	"	20,322	19,543 64	73,845 31	93,388 95	4 59	96
General Hospital	Wingham	2,304	2,159 25	7,809 87	9,969 12	4 32	93
General Hospital	Woodstock	10,610	9,202 73	26,727 70	35,930 43	3 38	86
Totals for 1924		2,614,616	2,091,109 28	6,081,769 25	8,172,878 53	3 12	79
Totals for 1923		2,533,204	1,954,212 67	6,137,590 32	8,091,803 00	3 19	77

TABLE VII.—Showing the proportion of maintenance of Hospitals paid by the Government.

Hospitals.	Location..	Revenues on maintenance account, exclusive of Government grant.	Government grant in aid of maintenance.	Total revenue for maintenance.	Total expenditure for maintenance.	Percentage of Government grant to total expenditure for maintenance.
		$ c.	$ c.	$ c.	$ c.	
Rosamond Memorial Hospital	Almonte	9,293 87	598 50	9,892 37	8,163 12	7.3
Royal Victoria Hospital	Barrie	22,157 14	5,835 80	27,992 94	33,154 56	17.6
General Hospital	Belleville	59,230 67	2,349 30	61,579 97	53,083 74	4.3
General Hospital	Bowmanville	14,271 20	2,275 90	16,547 10	16,635 49	13.6
General Hospital	Brantford	107,031 86	11,309 50	118,341 36	117,075 66	9.7
Brant Sanatorium	"	17,977 88	10,758 47	28,736 35	27,702 33	38.1
General Hospital	Brockville	44,731 49	2,954 50	47,685 99	51,666 49	5.7
St. Vincent de Paul Hospital	"	45,304 51	2,895 60	48,200 11	44,920 35	6.4
General Hospital	Chatham	49,762 31	2,933 70	52,696 01	36,386 17	8.0
St. Joseph's Hospital	"	31,508 83	1,869 40	33,378 23	44,862 05	4.1
Lady Minto Hospital	Chapleau	13,116 38	1,993 00	15,109 38	13,997 56	14.2
Cottage Hospital	Cobourg	16,313 31	1,234 10	17,547 41	17,586 52	7.0
Public Hospital	Clinton	7,360 35	595 10	7,955 45	7,810 60	7.6
Cobalt Mines Hospital	Cobalt	26,338 08	3,517 90	29,855 98	30,720 97	11.4
Lady Minto Hospital	Cochrane	19,876 34	5,463 40	25,339 74	15,271 39	35.8
General and Marine Hospital	Collingwood	27,090 37	2,984 10	30,074 47	27,881 05	10.7
General Hospital	Cornwall	36,674 01	2,490 20	39,164 21	29,000 41	8.5
Hotel Dieu Hospital	"	23,980 76	6,593 90	30,574 66	30,414 67	21.6
Red Cross Hospital	Dryden	5,375 37	.....	5,375 37	9,029 44	.....
Haldimand County Mem. Hospital	Dunnville	10,330 49	965 00	11,295 49	10,823 94	8.9
General Hospital	Durham	5,377 17	578 50	5,955 67	4,259 93	13.6
Royal Alexandra Hospital	Fergus	15,183 74	593 20	15,776 94	15,136 40	3.9
McKellar General Hospital	Fort William	100,915 82	10,651 90	111,567 72	106,471 70	10.0
General Hospital	Galt	46,459 35	3,895 20	50,354 55	44,758 22	8.7
General and Marine Hospital	Goderich	7,762 34	583 50	8,345 84	8,467 22	6.8
Muskoka Cottage Hospital	Gravenhurst	45,042 49	.....	45,042 49	28,574 75	.....
Muskoka Hosp. for Consumptives	"	209,172 94	69,730 50	278,903 44	234,478 68	29.6
General Hospital	Guelph	50,607 73	4,965 00	55,572 73	64,855 57	7.6
St. Joseph's Hospital	"	26,769 24	5,669 30	32,438 54	34,017 71	16.6
City Hospital	Hamilton	352,745 77	46,057 30	398,803 07	414,656 84	11.1
St. Joseph's Hospital	"	110,893 95	9,986 40	120,880 35	122,303 05	8.2
Mountain Sanatorium	"	192,100 51	56,892 75	248,993 26	229,586 50	24.8
Memorial Hospital	Hanover	6,921 90	44 50	6,966 40	12,636 63	3.5
St. Paul's Hospital	Hearst	3,499 31	207 50	3,706 81	3,566 93	5.8
General Hospital	Ingersoll	10,964 05	472 00	11,436 05	10,757 88	4.4
General Hospital	Kenora	13,260 14	3,453 70	16,713 84	17,037 20	20.2
St. Joseph's Hospital	"	13,101 78	1,874 00	14,975 78	11,006 54	17.0
General Hospital	Kincardine	8,056 98	696 40	8,753 38	8,861 33	7.8
General Hospital	Kingston	127,071 54	14,132 80	141,204 34	154,565 72	9.1
Hotel Dieu Dieu Hospital	"	77,760 12	12,003 20	89,763 32	96,316 70	12.8
Kitchener and Waterloo Hospital	Kitchener	58,264 72	2,941 70	61,206 42	52,625 89	5.6
Freeport Sanatorium	"	35,627 18	11,653 50	47,280 68	35,678 38	32.7
Ross Memorial Hospital	Lindsay	25,735 91	1,891 80	27,627 71	28,862 37	6.6
Listowel Memorial Hospital	Listowel	9,538 49	1,006 00	10,544 49	9,582 85	10.5
General Hospital	London	337,301 00	15,005 90	352,306 90	353,710 11	4.2
St. Joseph's Hospital	"	108,368 68	3,230 30	111,598 98	111,429 12	2.9
Bethesda Hospital	"	19,207 47	3,452 00	22,659 47	32,227 40	10.6
Queen Alexandra Hospital	"	224,050 30	33,454 50	257,504 80	261,873 45	12.7
Victoria Home for Incurables	"	33,064 43	12,246 50	45,310 93	32,348 25	37.8
Rosedale War Memorial Hospital	Matheson	4,365 00	729 00	5,094 00	5,601 90	13.0
General Hospital	Mattawa	9,753 17	3,372 60	13,125 77	12,707 12	21.5
General Hospital	Midland	18,542 75	1,996 00	20,538 75	21,441 41	9.3
Mount Forest General Hospital	Mount Forest	5,415 41	954 50	6,369 91	6,688 24	14.3
Lady Minto Hospital	New Liskeard	17,997 70	1,306 00	19,303 70	18,862 47	6.9
York County Hospital	Newmarket	7,240 14	1,073 00	8,313 14	8,503 77	12.6
General Hospital	Niagara Falls	50,297 58	4,973 10	55,270 68	56,998 59	8.6
Cottage Hospital	Niag.-on-the-L.	3,959 71	588 00	4,547 71	4,629 21	12.7
Queen Victoria Hospital	North Bay	22,862 40	2,857 90	25,720 30	33,995 32	8.4
General Hospital	Orangeville	12,201 85	590 00	12,791 85	12,853 35	4.6
General Hospital	Orillia	33,906 93	4,048 00	37,954 93	26,973 87	14.9
General Hospital	Oshawa	49,836 33	2,738 90	52,575 23	49,836 12	5.5
General Protestant Hospital	Ottawa	156,122 25	11,080 30	167,202 55	159,096 80	6.9
Roman Catholic Hospital	"	178,151 86	16,618 90	194,770 76	173,551 82	9.0
Maternity Hospital	"	24,576 42	794 00	25,370 42	23,947 05	3.3
Misericordia Maternity Hospital	"	31,884 48	2,362 50	34,246 98	54,749 24	4.3
Protestant Orphans' Hospital	"	13,376 94	2,835 50	16,212 44	16,065 68	17.6
St. Luke's General Hospital	"	129,405 64	8,667 20	138,072 84	161,420 20	5.3
Salvation Army Maternity Hospital	"	29,031 41	4,203 00	33,234 41	35,319 28	11.9
Royal Sanatorium	"	36,033 83	17,919 50	53,953 33	53,953 33	33.2
Perley Home for Incurables	"	16,739 11	10,193 00	26,932 11	26,728 25	38.1
General and Marine Hospital	Owen Sound	31,030 51	2,268 80	33,299 31	30,829 14	7.3
Willett Hospital	Paris	11,862 33	1,589 00	13,451 33	11,203 11	14.2
Stone Memorial Hospital	Parry Sound	7,053 22	1,216 00	8,269 22	13,516 85	8.9
St. Joseph's Hospital	"	5,902 87	2,012 50	7,915 37	7,979 37	25.2
Cottage Hospital	Pembroke	22,734 69	2,062 40	24,797 09	27,483 25	7.5
General Hospital	"	37,528 35	8,032 30	45,560 65	38,599 94	20.8
General Hospital	Penetang'shene	6,780 25	438 20	7,218 45	7,180 89	6.1
Great War Memorial Hospital	Perth	13,588 47	1,155 00	14,743 47	15,487 23	7.4

TABLE VII.—Showing the proportion of maintenance of Hospitals paid by the Government.—*Concluded.*

Hospitals.	Location..	Revenues on maintenance account, exclusive of Government grant.	Government grant in aid of maintenance.	Total revenue for maintenance.	Total expenditure for maintenance.	Percentage of Government grant to total expenditure for maintenance.
		$ c.	$ c.	$ c.	$ c.	
Nicholl's Hospital	Peterborough..	60,386 97	2,658 70	63,045 67	61,525 01	4.3
St. Joseph's Hospital	"	26,250 95	4,196 70	30,447 65	31,463 28	13.3
C. E. Englehart Hospital	Petrolea.....	16,484 93	704 80	17,189 73	21,538 46	3.2
Prince Edward County Hospital	Picton	11,046 41	821 10	11,867 51	9,905 20	8.3
General Hospital	Port Arthur...	34,571 38	3,401 28	37,972 66	35,436 13	9.6
St. Joseph's Hospital	"	43,319 90	5,706 20	49,026 10	46,238 85	12.3
General Hospital	Port Hope.....	11,827 67	1,500 50	13,328 17	12,737 14	11.7
Victoria General Hospital	Renfrew.....	14,857 96	1,558 50	16,416 46	14,830 59	10.5
General and Marine Hospital	St. Catharines..	46,165 48	2,950 40	49,115 88	56,237 88	5.2
Consumptive Sanatorium	"	8,051 90	4,188 75	12,240 65	11,233 90	37.3
Amasa Wood Hospital	St. Thomas....	36,802 31	2,593 00	39,395 31	38,261 72	6.7
Essex County Sanatorium	Sandwich.....	33,976 31	12,132 75	46,109 06	39,647 55	30.6
General Hospital	Sarnia.....	39,489 79	2,609 40	42,099 19	40,303 97	6.4
Plummer Memorial Hospital	Sault Ste. Marie	21,496 12	3,049 90	24,546 02	22,072 08	13.8
General Hospital	"	39,523 91	4,489 10	44,013 01	43,897 75	10.2
General Hospital	Sioux Lookout..	11,027 95	1,551 60	12,579 55	10,667 57	14.5
Public Hospital	Smith's Falls...	31,457 42	2,569 90	34,027 32	33,981 44	7.5
St. Francis Hospital	"	19,374 95	1,734 90	21,109 85	21,167 19	8.2
General Hospital	Stratford.....	51,947 62	3,292 10	55,239 72	53,535 65	6.1
General Hospital	Strathroy.....	16,576 88	2,515 90	19,092 78	16,338 80	14.5
St. Joseph's Hospital	Sudbury.....	68,648 17	14,816 20	83,464 37	73,609 91	20.1
General Hospital	Toronto.....	851,953 74	80,011 30	931,965 04	940,087 01	8.5
Grace Hospital	"	142,360 63	11,241 10	153,601 73	155,535 18	7.2
Hospital for Sick Children	"	287,832 90	42,432 90	330,265 80	348,940 41	12.1
St. John's Hospital	"	86,556 45	7,378 20	93,734 65	87,653 26	8.4
St. Joseph's Hospital	"	75,799 70	13,984 20	89,783 90	80,696 70	17.2
St. Michael's Hospital	"	236,782 92	38,769 70	275,552 62	280,080 38	13.8
Salvation Army Woman's Hospital	"	17,097 96	3,191 90	20,289 86	16,946 98	18.8
Orthopedic Hospital	"	40,128 07	1,467 90	41,595 97	37,100 38	3.9
Wellesley Hospital	"	186,216 69	246 50	186,463 19	189,914 79	.....
Western Hospital	"	246,911 53	25,466 31	272,377 84	250,113 78	10.2
Woman's College Hospital	"	51,268 11	6,780 40	58,048 51	54,568 94	12.4
The Preventorium	"	29,679 75	15,928 50	45,608 25	45,757 18	34.8
Toronto Hospital for Incurables	"	135,993 83	41,111 00	177,104 83	166,798 90	24.6
Hospital for Incurable Children	"	18,892 78	6,794 50	25,687 28	21,699 82	31.3
General Hospital	Walkerton.....	12,322 68	542 20	12,864 88	10,418 73	5.2
General Hospital	Welland.....	27,982 91	2,674 10	30,657 01	30,972 41	8.6
Toronto Hospital for Consumptives King Edward Sanatorium Queen Mary Hospital for Children	Weston.....	212,625 24	86,508 75	299,133 99	261,187 08	33.1
Hotel Dieu Hospital	Windsor.....	74,596 38	7,239 10	81,835 48	82,436 40	8.7
Grace Hospital	"	85,144 63	7,195 90	92,340 53	93,388 95	7.7
General Hospital	Wingham.....	10,139 21	136 00	10,275 21	9,969 12	1.3
General Hospital	Woodstock....	35,346 24	1,490 30	36,836 54	35,930 43	4.1
Totals for 1924	.....	7,359,649 20	995,294 76	8,354,943 96	8,172,878 53	10.9
Totals for 1923	.....	7,119,146 51	946,425 42	8,065,471 93	8,091,803 00	10.0

CITY HOUSES OF REFUGE

The usual information obtained from each Refuge, in respect of sex, and previous residence of the inmates, has been summarized as under:

Sex

Male	2,382
Female	3,260
	5,642

Former Residence

Received from cities and towns in which the Refuges are located	3,908
Received from counties in which the Refuges are located	501
Received from other counties in the Province	945
Immigrants and foreigners	288
	5,642

TABLE I.—City Houses of Refuge.—Summary of the operations of each Refuge during the year.

Name of Refuge	Location	Number of persons in the Refuge on the 1st Oct., 1923.	Number admitted during the year.	Total number under lodgment during the year ending 30 Sept., 1924.	Total number discharged during the year.	Number of deaths during the year.	Number of persons remaining in the Refuge on the 30th Sept., 1924.
Home for the Friendless	Belleville	8	5	13	1	1	11
The Widows' Home	Brantford	15	3	18	.....	2	16
Home for the Friendless	Chatham	29	19	48	15	5	28
St. Paul's Home for the Aged	Cornwall	74	42	116	23	17	76
House of Providence	Dundas	143	85	228	67	10	151
Elliott Home	Guelph	26	4	30	5	.....	25
House of Providence	"	40	15	55	13	6	36
Aged Women's Home	Hamilton	52	4	56	.....	4	52
Hamilton House of Refuge	"	130	62	192	33	28	131
St. Peter's Infirmary	"	14	8	22	4	5	13
Home for Friendless Women and Infants	Kingston	22	19	41	30	1	10
House of Providence	"	151	69	220	39	30	151
House of Refuge	"	48	18	66	16	6	44
House of Providence	London	189	89	278	57	23	198
London Convalescent Home	"	4	3	7	4	.....	3
McCormack Home for Aged People	"	67	29	96	20	2	74
Elizabeth Residence for Elderly Ladies	Ottawa	15	7	22	6	.....	16
Monastery of Our Lady of Charity	"	189	144	333	154	.....	179
Ottawa Home for Friendless Women	"	37	91	128	85	1	42
Protestant Home for the Aged	"	22	11	33	9	2	22
Protestant Orphans' Home, Refuge Branch	"	18	7	25	7	3	15
St. Charles Hospice	"	218	100	318	58	42	218
St. Patrick's Asylum, Refuge Branch	"	120	17	142	16	16	110
Women's Convalescent Home	"	5	100	105	102	.....	3
Parry Sound District House of Refuge	Powassan	20	13	33	10	5	18
Peterborough Protestant Home	Peterborough	34	12	46	9	1	36
St. Joseph's House of Providence	"	62	35	97	24	5	68
Thomas Williams Home	St. Thomas	23	9	32	.....	9	23
District of Algoma House of Refuge	Sault Ste. Marie	49	38	87	14	17	56
Aged Men's Home	Toronto	47	22	69	10	7	52
Aged Women's Home	"	110	21	131	6	14	111
Church Home for the Aged	"	40	7	47	6	4	37
Good Shepherd Female Refuge	"	146	112	258	97	1	160
Haven and Prison Gate Refuge	"	103	97	200	77	11	112
Hillcrest Convalescent Home	"	20	136	156	129	.....	27
Toronto House of Industry	"	106	124	230	94	20	116
House of Providence	"	382	374	756	286	51	419
Humewood House Association	"	15	56	71	50	.....	21
Jewish Old Folk's Home	"	26	6	32	1	8	23
Julia Greenshield's Home	"	30	8	38	5	4	29
Mothers' Rest-a-While Association	"	18	5	23	1	4	18
Salvation Army Rescue Home	"	71	360	431	377	.....	54
Toronto Industrial Refuge	"	65	29	94	15	.....	79
Victor Home for Young Women	"	25	133	158	124	2	32
Home for the Friendless	Windsor	34	27	61	19	9	33
Totals for 1924	.....	3,067	2,575	5,642	2,118	376	3,148
Totals for 1923	.....	3,057	2,520	5,577	2,105	377	3,095

TABLE II.—City Houses of Refuge.—Shows the aggregate stay of inmates upon which the amount of aid to be granted by the Government to each Refuge is based. The average stay per inmate is also given.

Name of Refuge.	Location.	Number of inmates during the year.	Total days stay during the year.	Average stay per inmate in days.
Home for the Friendless	Belleville	13	3,854	296
The Widow's Home	Brantford	18	5,652	314
Home for the Friendless	Chatham	48	12,018	250
St. Paul's Home for the Aged	Cornwall	116	30,287	278
House of Providence	Dundas	228	55,476	243
Elliott Home	Guelph	30	9,433	314
House of Providence	"	55	14,563	265
Aged Women's Home	Hamilton	56	19,218	343
Hamilton House of Refuge	"	192	47,326	246
St. Peter's Infirmary	"	22	4,804	218
Home for Friendless Women and Infants	Kingston	41	7,581	185
House of Providence	"	220	59,027	268
House of Refuge	"	66	18,124	276
House of Providence	London	278	71,702	258
London Convalescent Home	"	7	1,102	157
McCormack Home for Aged People	"	96	26,593	277
Elizabeth Residence for Elderly Ladies	Ottawa	22	5,606	255
Monastery of Our Lady of Charity	"	333	63,479	191
Ottawa Home for Friendless Women	"	128	14,267	111
Protestant Home for the Aged	"	33	9,143	277
Protestant Orphans' Home, Refuge Branch	"	25	5,699	228
St. Charles Hospice	"	318	80,379	253
St. Patrick's Asylum, Refuge Branch	"	142	44,448	313
Women's Convalescent Home	"	105	2,372	22
Parry Sound District House of Refuge	Powassan	33	8,992	272
Peterborough Protestant Home	Peterborough	46	12,111	255
St. Joseph's House of Providence	"	97	23,830	246
Thomas Williams Home	St. Thomas	32	8,190	256
District of Algoma House of Refuge	Sault Ste. Marie	87	20,149	232
Aged Men's Home	Toronto	69	19,037	276
Aged Women's Home	"	131	39,938	305
Church Home for the Aged	"	47	14,392	306
Good Shephard Female Refuge	"	258	56,579	219
Haven and Prison Gate Refuge	"	200	39,564	188
Hillcrest Convalescent Home	"	156	9,805	63
House of Industry	"	230	42,619	185
House of Providence	"	756	154,987	205
Humewood House Association	"	71	7,183	101
Jewish Old Folk's Home	"	32	8,577	268
Julia Greenshields Home	"	38	10,448	275
Mothers Rest a While Association	"	23	6,826	297
Salvation Army Rescue Home	"	431	21,245	49
Toronto Industrial Refuge	"	94	24,546	261
Victor Home for Young Women	"	158	11,814	75
Home for the Friendless	Windsor	61	12,265	201
Totals for 1924		5,642	1,165,250	206
Totals for 1923		5,577	1,141,787	200

TABLE III.—City Houses of Refuge.—Showing the cost of maintaining the Refuges.

Name of Refuge.	Location.	Aggregate stay of inmates.	Cost of dietaries.	Expenditure for fuel, salaries and wages, and all general expenses.	Total expenditure exclusive of extraordinary expenses.	Average cost per inmate per day.
			$ c.	$ c.	$ c.	$ c.
Home for the Friendless	Belleville	3,854	626 62	1,527 63	2,154 25	0 56
The Widow's Home	Brantford	5,652	965 99	2,284 42	3,250 41	0 58
Home for the Friendless	Chatham	12,018	2,275 19	5,049 78	7,324 97	0 61
St. Paul's Home for the Aged	Cornwall	30,287	4,625 48	4,436 65	9,062 13	0 30
House of Providence	Dundas	55,476	18,308 21	23,410 33	41,718 54	0 75
Elliott Home	Guelph	9,433	2,755 61	7,679 92	10,435 53	1 11
House of Providence	"	14,563	3,113 62	4,566 60	7,680 22	0 53
Aged Women's Home	Hamilton	19,218	3,983 75	11,555 52	15,539 27	0 81
Hamilton House of Refuge	"	47,326	10,608 12	24,477 14	35,085 26	0 74
St. Peter's Infirmary	"	4,804	1,249 23	6,293 62	7,542 85	1 57
Home for Friendless Women and Infants	Kingston	7,581	2,212 43	2,779 12	4,991 55	0 66
House of Providence	"	59,027	23,609 16	50,845 18	74,454 34	1 26
House of Refuge	"	18,124	4,197 75	8,854 84	13,052 59	0 72
House of Providence	London	71,702	13,827 37	10,841 78	24,669 15	0 34
London Convalescent Home	"	1,102	458 08	694 59	1,152 67	1 05
McCormack Home for Aged People	"	26,593	8,890 27	23,082 82	31,973 09	1 20
Elizabeth Residence for Elderly Ladies	Ottawa	5,606	2,496 70	6,013 91	8,510 61	1 52
Monastery of Our Lady of Charity	"	63,479	17,338 85	28,259 18	45,598 03	0 72
Ottawa Home for Friendless Women	"	14,267	3,357 99	34,442 57	37,800 56	2 65
Protestant Home for the Aged	"	9,143	1,367 09	4,633 47	6,000 56	0 66
Protestant Orphans' Home, Refuge Br.	"	5,699	2,506 77	12,739 70	15,246 47	2 67
St. Charles Hospice	"	80,379	12,755 13	16,725 05	29,480 18	0 37
St. Patrick's Asylum, Refuge Branch	"	44,448	8,971 18	24,300 68	33,271 86	0 75
Women's Convalescent Home	"	2,372	1,293 82	3,540 22	4,834 04	0 24
Parry Sound District House of Refuge	Powassan	8,992	1,295 82	7,112 73	8,408 55	0 94
Peterborough Protestant Home	Peterborough	12,111	2,499 91	6,541 16	9,041 07	0 75
St. Joseph's House of Providence	"	23,830	5,590 18	5,005 24	10,595 42	0 44
Thomas Williams Home	St. Thomas	8,190	1,698 92	3,932 04	5,630 96	0 69
District of Algoma House of Refuge	Sault Ste. Marie	20,149	5,539 30	11,411 97	16,951 27	0 84
Aged Men's Home	Toronto	19,037	5,147 56	14,129 02	19,276 58	1 01
Aged Women's Home	"	39,938	10,131 87	22,967 32	33,099 19	0 83
Church Home for the Aged	"	14,392	4,864 00	10,412 15	15,276 15	1 06
Good Shepherd Female Refuge	"	56,579	18,002 70	15,961 10	33,963 80	0 60
Haven and Prison Gate Refuge	"	39,564	8,453 26	20,955 56	29,408 82	0 74
Hillcrest Convalescent Home	"	9,805	5,665 30	8,262 94	13,928 24	1 42
Toronto House of Industry	"	42,619	8,525 92	10,249 27	18,775 19	0 44
House of Providence	"	154,987	35,075 94	43,324 03	78,399 97	0 51
Humewood House Association	"	7,183	1,809 66	3,737 01	5,546 67	0 77
Jewish Old Folk's Home	"	8,577	3,681 93	10,103 74	13,785 67	1 61
Julia Greenshields Home	"	10,448	4,657 61	7,862 12	12,519 73	1 19
Mothers Rest-a-While Home	"	6,826	1,542 58	2,369 60	3,912 18	0 57
Salvation Army Rescue Home	"	21,245	2,962 48	13,206 17	16,168 65	0 76
Toronto Industrial Refuge	"	24,546	5,837 84	27,434 07	33,271 91	1 36
Victor Home for Young Women	"	11,814	1,947 99	4,442 53	6,390 52	0 54
Home for the Friendless	Windsor	12,265	3,251 22	3,613 50	6,864 72	0 56
Totals for 1924		1,165,250	289,976 40	572,067 99	862,044 39	0 74
Totals for 1923		1,141,787	285,524 14	576,454 80	861,978 94	0 76

TABLE IV.

CITY REFUGES. Shows the basis upon which Statutory Aid is granted.

Name of Refuge.	Location.	Collective days' stay upon which computation of Refuge rate is based exclusive of infants under one year old.	Collective days' stay upon which computation of Orphanage rate is based exclusive of infants under one year old.	Amount received from all sources other than Government.	Computation of Refuge rate of ten (10) cents per day.	Computation of Orphanage rate of five (5) cents per day.	Total Government allowance to each House of Refuge for the year 1924.
				$ c.	$ c.	$ c.	$ c.
Home for the Friendless	Belleville	3,854	.....	1,863 75	385 40	.....	385 40
The Widows' Home	Brantford	5,652	.....	3,865 54	565 20	.....	565 20
Home for the Friendless	Chatham	12,018	.....	6,283 43	1,201 80	.....	1,201 80
St. Paul's Home for the Aged	Cornwall	30,287	.....	6,399 63	3,028 70	.....	3,028 70
House of Providence	Dundas	47,728	7,748	32,048 31	4,772 80	387 40	5,160 20
Elliott Home	Guelph	9,433	.....	9,954 92	943 30	.....	943 30
House of Providence	"	14,563	.....	5,462 00	1,456 30	.....	1,456 30
Aged Women's Home	Hamilton	19,218	.....	14,944 19	1,921 80	.....	1,921 80
Hamilton House of Refuge	"	47,326	.....	30,562 66	4,732 60	.....	4,732 60
St. Peter's Infirmary	"	4,804	.....	5,532 47	480 40	.....	480 40
Home for the Friendless Women and Infants	Kingston	1,374	6,207	4,753 21	137 40	310 35	447 75
House of Providence	"	59,027	.....	68,500 93	5,902 70	.....	5,902 70
House of Refuge	"	18,124	.....	10,527 68	1,812 40	.....	1,812 40
House of Providence	London	71,702	.....	19,375 23	7,170 20	.....	7,170 20
London Convalescent Home	"	1,102	.....	794 23	110 20	.....	110 20
McCormack Home for Aged People	"	26,593	.....	25,327 10	2,659 30	.....	2,659 30
Elizabeth Residence for Elderly Ladies	Ottawa	5,606	.....	8,579 10	560 60	.....	560 60
Monastery of Our Lady of Charity	"	51,879	11,600	28,656 70	5,187 90	580 00	5,767 90
Ottawa Home for Friendless Women	"	14,267	.....	35,896 14	1,426 70	.....	1,426 70
Protestant Home for the Aged	"	9,143	.....	4,503 72	914 30	.....	914 30
Protestant Orphans' Home, Refuge Branch	"	5,699	.....	13,384 38	569 90	.....	569 90
St. Charles Hospice	"	80,379	.....	22,203 71	8,037 90	.....	8,037 90
St. Patrick's Asylum, Refuge Branch	"	38,312	6,136	26,201 98	3,831 20	306 80	4,138 00
Women's Convalescent Home	"	2,372	.....	2,387 10	237 20	.....	237 20
Parry Sound District House of Refuge	Powassan	8,992	.....	7,412 40	899 20	.....	899 20
Peterborough Protestant Home	Peterborough	12,111	.....	8,302 65	1,211 10	.....	1,211 10
St. Joseph's House of Providence	"	23,830	.....	7,798 46	2,383 00	.....	2,383 00
Thomas Williams Home	St. Thomas	8,190	.....	5,204 36	819 00	.....	819 00

District of Algoma House of Refuge	Sault Ste. Marie	20,149	.....	13,852 32	2,014 90	.....	2,014 90
Aged Men's Home	Toronto	19,037	.....	17,328 21	1,903 70	.....	1,903 70
Aged Women's Home	"	39,938	.....	32,246 43	3,993 80	.....	3,993 80
Church Home for the Aged	"	14,392	.....	13,055 23	1,439 20	.....	1,439 20
Good Shepherd Female Refuge	"	56,579	.....	28,463 00	5,657 90	.....	5,657 90
Haven and Prison Gate Mission	"	26,374	13,190	25,597 44	2,637 40	659 50	3,296 90
Hillcrest Convalescent Home	"	4,561	.....	14,202 40	456 10	.....	456 10
Toronto House of Industry	"	42,619	.....	216,333 67	4,261 90	.....	4,261 90
House of Providence	"	154,987	.....	60,557 84	15,498 70	.....	15,498 70
Humewood House Association	"	4,148	3,035	5,388 03	414 80	151 75	566 55
Jewish Old Folk's Home	"	8,577	.....	11,206 01	857 70	.....	857 70
Julia Greenshields Home	"	10,448	.....	11,440 54	1,044 80	.....	1,044 80
Mothers Rest-a-While Home	"	6,826	.....	3,312 00	682 60	.....	682 60
Salvation Army Rescue Home	"	13,832	7,413	9,710 00	1,383 20	370 65	1,753 85
Toronto Industrial Refuge	"	24,546	.....	31,340 00	2,454 60	.....	2,454 60
Victor Home for Young Women	"	7,201	4,613	5,512 22	720 10	230 65	950 75
Home for the Friendless	Windsor	12,265	.....	5,138 79	1,226 50	.....	1,226 50
Totals for 1924	.....	1,100,064	59,942	921,410 11	110,006 40	2,997 10	113,003 50
Totals for 1923	.....	1,087,958	30,681	929,006 21	108,795 80	1,534 05	110,329 85

ORPHAN ASYLUMS

The statistical tables on the following pages of this report show an increase in the contributions to several of the Institutions, while in some cases there is a falling off as compared with last year.

The total number of children cared for in the Orphanages during the year was 4,437, as compared with 4,540 in 1923.

In the tables will be found full details of the receiving and discharging of children, etc.

The statistics relating to the sex and previous residence of the inmates are given in the following summary:

Sex

Male	2,149
Female	2,288
	4,437

Previous Residence

Received from cities in which Orphanages are located	2,933
Received from counties in which Orphanages are located	349
Received from other counties in the Province	1,049
Immigrants and foreigners and unknown	106
	4,437

TABLE I.—Schedule C—Orphanages.

Name of Orphanage.	Location.	No. in residence 1st October, 1923.	Number admitted during the year ending 30th Sept., 1924.	Total number maintained during the year.	Number discharged during the year.	Number of deaths during the year.	Number remaining in residence on 30th Sept., 1924.
St. Joseph's Orphanage	Cobourg	26	15	41	19	.....	22
Nazareth Orphanage	Cornwall	53	65	118	63	.....	55
St. Joseph's Orphanage	Fort William	73	78	151	63	.....	88
Boys' Home	Hamilton	52	29	81	27	1	53
Girls' Home	"	43	24	67	20	.....	47
Home for the Friendless and Infants' Home	"	63	139	202	125	3	74
St. Mary's Orphan Asylum	"	134	87	221	75	.....	146
Salvation Army Rescue Home	"	32	83	115	61	.....	54
Orphans' Home and Widows' Friend Society	Kingston	34	70	104	79	.....	25
St. Mary of the Lake Orphanage	"	93	57	150	41	1	108
Kitchener Orphanage	Kitchener	17	40	57	35	.....	22
Protestant Orphans' Home	London	62	40	102	53	.....	49
Roman Catholic Orphans' Home	"	148	123	271	121	2	148
Salvation Army Rescue Home and Children's Shelter	"	54	109	163	102	1	60
Ottawa Boys' Home	Ottawa	8	24	32	19	.....	13
Protestant Orphans' Home	"	46	53	99	55	.....	44
St. Joseph's Orphanage	"	245	155	400	158	.....	242
St. Patrick's Orphan Asylum	"	80	46	126	22	.....	104
Salvation Army Rescue Home and Children's Shelter	"	79	231	310	225	5	80
St. Vincent's Orphanage	Peterborough	28	27	55	20	.....	35
Loyal True Blue Orphanage	Richmond Hill	98	72	170	47	.....	123
St. Agatha Orphans' Home	St. Agatha	79	20	99	21	.....	78
Protestant Orphans' Home	St. Catharines	26	10	36	5	.....	31
Boys' Home	Toronto	53	43	96	32	.....	64
Girls' Home	"	73	38	111	53	.....	58
Infants' Home and Infirmary	"	167	368	535	366	2	167
Protestant Orphans' Home	"	48	49	97	34	.....	63
St. Mary's Infants' Home	"	49	123	172	117	9	46
Sacred Heart Orphanage	"	110	31	141	53	1	87
Working Boys' Home	"	35	80	115	76	.....	39
Totals for 1924	.....	2,108	2,329	4,437	2,187	25	2,225
Totals for 1923	.....	2,262	2,278	4,540	2,383	24	2,133

TABLE II.—Schedule C—Orphanages.

Name of Orphanage.	Location.	Aggregate stay of inmates.	Total expenditure on maintenance account for the year ending 30th September, 1924.	Average cost per inmate per day.
			$ c.	$ c.
St. Joseph's Orphanage	Cobourg	9,302	3,491 27	0 38
Nazareth Orphanage	Cornwall	16,601	4,769 63	0 29
St. Joseph's Orphanage	Fort William	31,707	17,258 72	0 54
Boys' Home	Hamilton	20,254	9,251 04	0 46
Girls' Home	"	16,748	9,073 92	0 55
Home for the Friendless and Infants' Home	"	24,939	16,565 11	0 66
St. Mary's Orphan Asylum	"	50,777	21,061 25	0 41
Salvation Army Rescue Home	"	16,008	11,569 48	0 72
Orphans' Home and Widows' Friend Society	Kingston	12,282	14,166 94	1 15
St. Mary of the Lake Orphanage	"	36,422	12,259 27	0 34
Kitchener Orphanage	Kitchener	7,573	4,747 65	0 63
Protestant Orphans' Home	London	21,951	18,828 22	0 86
Roman Catholic Orphans' Home	"	57,488	20,360 82	0 35
Salvation Army Rescue Home and Children's Shelter	"	22,001	8,901 18	0 40
Ottawa Boys' Home	Ottawa	4,223	3,718 02	0 88
Protestant Orphans' Home	"	19,171	15,246 47	0 80
St. Joseph's Orphanage	"	89,971	32,684 11	0 36
St. Patrick's Orphan Asylum	"	33,599	..... *	.....
Salvation Army Rescue Home and Children's Shelter	"	28,593	14,527 26	0 51
St. Vincent's Orphanage	Peterborough	10,807	5,147 71	0 48
Loyal True Blue Orphanage	Richmond Hill	39,896	16,655 74	0 43
St. Agatha Orphans' Home	St. Agatha	28,252	7,061 99	0 25
Protestant Orphans' Home	St. Catharines	9,501	6,001 85	0 63
Boys' Home	Toronto	23,166	17,485 42	0 75
Girls' Home	"	25,230	17,870 81	0 71
Infants' Home and Infirmary	"	65,397	66,772 07	1 02
Protestant Orphans' Home	"	21,594	27,290 25	1 26
St. Mary's Infants' Home	"	16,021	14,156 21	0 88
Sacred Heart Orphanage	"	38,163	19,886 15	0 52
Working Boys' Home	"	15,171	13,215 60	0 87
Totals for 1924	.....	812,808	450,024 16	0 55
Totals for 1923	.....	815,838	457,786 71	0 56

*Shown in Refuge Report.

TABLE III.—Schedule C—Orphanages.

Name of Orphanage.	Location.	Collective days' stay upon which computation of Orphanage rate is based.	Collective days' stay upon which computation of Refuge rate is based.	Amount received from all sources other than Government.	Computations at five (5) cents per day, being Orphanage rate.	Computations of ten (10) cents per day, being Refuge rate for adults.	Total Government grant for the year 1924.
				$ c.	$ c.	$ c.	$ c.
St. Joseph's Orphanage	Cobourg	9,302	.....	3,079 50	465 10	.....	465 10
Nazareth Orphanage	Cornwall	16,601	.....	3,916 57	830 05	.....	830 05
St. Joseph's Orphanage	Fort William	31,707	.....	6,409 08	1,585 35	.....	1,585 35
Boys' Home	Hamilton	20,254	.....	8,977 04	1,012 70	.....	1,012 70
Girls' Home	"	16,748	.....	8,895 09	837 40	.....	837 40
Home for Friendless and Infants' Home	"	18,032	6,907	14,929 72	901 60	690 70	1,592 30
St. Mary's Orphan Asylum	"	50,777	.....	17,042 36	2,538 85	.....	2,538 85
Salvation Army Rescue Home	"	9,405	6,603	10,561 07	470 25	660 30	1,130 55
Orphans' Home and Widows' Friend Society	Kingston	12,282	.....	13,831 21	614 10	.....	614 10
St. Mary's of the Lake Orphanage	"	36,422	.....	10,373 18	1,821 10	.....	1,821 10
Kitchener Orphanage	Kitchener	7,573	.....	5,071 35	378 65	.....	378 65
Protestant Orphans' Home	London	21,951	.....	18,196 80	1,097 55	.....	1,097 55
Roman Catholic Orphans' Home	"	57,488	.....	17,009 24	2,874 40	.....	2,874 40
Salvation Army Rescue Home and Child. Shelter	"	17,830	4,171	8,657 24	891 50	417 10	1,308 60
Ottawa Boys' Home	Ottawa	4,223	.....	3,356 20	211 15	.....	211 15
Protestant Orphans' Home	"	19,171	.....	13,384 38	958 55	.....	958 55
St. Joseph's Orphanage	"	89,971	.....	28,064 47	4,498 55	.....	4,498 55
St. Patrick's Orphan Asylum	"	33,599	.....	..... *	1,679 95	.....	1,679 95
Salvation Army Rescue and Children's Home	"	20,064	8,529	10,466 07	1,003 20	852 90	1,856 10
St. Vincent's Orphanage	Peterborough	10,807	.....	4,723 01	540 35	.....	540 35
Loyal True Blue Orphanage	Richmond Hill	39,896	.....	29,208 20	1,994 80	.....	1,994 80
St. Agatha Orphans' Home	St. Agatha	28,252	.....	4,996 35	1,412 60	.....	1,412 60
Protestant Orphans' Home	St. Catharines	9,501	.....	6,952 64	475 05	.....	475 05
Boys' Home	Toronto	23,166	.....	16,278 11	1,158 30	.....	1,158 30
Girls' Home	"	25,230	.....	17,059 97	1,261 50	.....	1,261 50
Infants' Home and Infirmary	"	59,986	5,411	59,728 94	2,999 30	541 10	3,540 40
Protestant Orphans' Home	"	21,594	.....	25,224 88	1,079 70	.....	1,079 70
St. Mary's Infants' Home	"	10,991	5,030	9,979 34	549 55	503 00	1,052 55
Sacred Heart Orphanage	"	36,922	1,241	17,852 41	1,846 10	124 10	1,970 20
Working Boys' Home	"	15,171	.....	12,856 04	758 55	.....	758 55
Totals for 1924	.....	774,916	37,892	407,080 47	38,745 80	3,789 20	42,535 00
Totals for 1923	.....	751,233	42,825	452,235 13	37,561 65	4,282 50	41,844 15

*Included in Refuge Branch.

TABLE I.—County Houses of Refuge.—Showing basis upon which Statutory Aid is granted.

County Houses of Refuge	Location	Days' stay to 31st March, 1924, upon which computation of Refuge rate of 10 cents per day is based.	Total Government allowance to each County House of Refuge.
			$ c.
County of Brant	Brantford	12,849	1,284 90
County of Bruce	Walkerton	8,357	835 70
County of Elgin	St. Thomas	4,856	485 60
County of Essex	Leamington	7,685	768 50
County of Grey	Markdale	10,833	1,083 30
County of Haldimand	Dunnville	15,566	1,556 60
County of Hastings	Belleville	15,983	1,598 30
County of Huron	Clinton	14,624	1,462 40
County of Kent	Chatham	8,863	886 30
County of Lambton	Sarnia	7,465	746 50
County of Lanark	Perth	14,719	1,471 90
Counties of Leeds and Grenville	Athens	6,920	692 00
County of Lincoln	St. Catharines	8,380	838 00
County of Middlesex	Strathroy	9,748	974 80
County of Norfolk	Simcoe	9,904	990 40
Counties of Northumberland and Durham	Cobourg	11,142	1,114 20
County of Ontario	Whitby	12,307	1,230 70
County of Oxford	Woodstock	10,837	1,083 70
Counties of Peel and Halton	Brampton	8,119	811 90
County of Perth	Stratford	11,560	1,156 00
County of Peterborough	Lakefield	5,123	512 30
Counties of Prescott and Russell	L'Orignal	11,700	1,170 00
County of Prince Edward	Picton	6,370	637 00
County of Simcoe	Beeton	13,348	1,334 80
Counties of Dundas, Stormont and Glengarry	Cornwall	9,597	959 70
County of Victoria	Lindsay	9,787	978 70
County of Waterloo	Kitchener	17,825	1,782 50
County of Welland	Welland	11,999	1,199 90
County of Wellington	Fergus	11,032	1,103 20
County of Wentworth	Dundas	8,120	812 00
County of York	Newmarket	12,066	1,206 60
Totals for 1924		327,684	32,768 40
Totals for 1923		616,779	61,677 90

PRODUCED BY
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Fifty-seventh Annual Report

UPON THE

Prisons and Reformatories

The Ontario Board of Parole

AND THE

Commissioner of Extra-mural Employment

OF THE

PROVINCE OF ONTARIO

BEING FOR THE YEAR ENDING 31st OCTOBER

1924

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO
Printed and Published by Clarkson W. James, Printer to the King's Most Excellent Majesty
1925

INTRODUCTORY COMMENT

The gaols in Ontario started the past year with 496 prisoners in custody. During 1924 we received 15,879, making a total list of 16,375. The cost of feeding them varied from 9c. per head per day at Picton to 45c. per head per day at Gore Bay. The average cost per day for all purposes was 49c. per head daily.

The increase in the number committed over 1923 was 1,884, the largest increase being 994 for crimes against order and peace; the next highest was 719 for crimes against property, which includes theft and fraud of all kinds. The drunks increased from 3,482 to 4,027, an increase of 545. In other respects the changes were insignificant.

An age of quickly-changing social conditions accompanied by a degree of industrial overproduction and its consequent depression is a producer of crimes, and no decrease may be anticipated until every man who is able and willing to work has employment.

The tables which follow and the introductions of the Superintendents of our penal institutions supply much detailed information to all who are interested in the ebb and flow of the criminal population of the Province.

H. M. Robbins,
Deputy Provincial Secretary.

FIFTY-SEVENTH ANNUAL REPORT

UPON THE

Gaols and District Lock-ups of Ontario

In presenting the Fifty-seventh Annual Report of the Gaols and Lock-ups of Ontario, I beg to submit the following statistics for the year ending September 30th, 1924.

(1) Number of Gaols in Ontario..... 46
Number of Provincial Lock-ups..... 4

(2) Total expenditure for Gaol maintenance in Ontario:
In 1923..... $300,454 57
In 1924..... 286,458 95

Decrease..... $13,995 62

(3) The cash revenue from Gaol labour during 1924 was $3,439.63, and was earned at Kinston and Ottawa.

Average cost per day for each prisoner in the County Gaols of Ontario wa s
In 1923..... 58.62 cents.
In 1924..... 49.67 cents.

(4) Number of persons committed to Gaols and Lock-ups during the past two years was:
In 1923..... 13,995
In 1924..... 15,879

Increase during the past year..... 1,884

Commitments for murder in 1923..... 27
Commitments for murder in 1924..... 28

Increase..... 1

Commitments for manslaughter in 1923..... 28
Commitments for manslaughter in 1924..... 21

Decrease..... 7

Commitments for crime against the person:
In 1923..... 599
In 1924..... 685

Increase..... 86

Commitments for crime against property:	
In 1923	3,336
In 1924	4,055
Increase	719
Commitments for crime against public morals and decency:	
In 1923	782
In 1924	820
Increase	38
Commitments for crime against public order and peace:	
In 1923	6,718
In 1924	7,712
Increase	994
Number of insane committed to Gaols:	
In 1923	324
In 1924	271
Decrease	53

Prisoners sentenced to the Penitentiary during the past year show an increase of 67 as compared with the previous year, and the number transferred to the Reformatories was 145 more than in 1923.

Number of prisoners sentenced in 1923	8,036
Number of prisoners sentenced in 1924	8,834
Increase	798
The percentage of sentences to commitments was:	
In 1923	57.4
In 1924	55.6

The number of prisoners sentenced to terms over one year was 104 more than during the previous year.

The number confined in penal institutions of Ontario was 333 more on September 30th, 1924, than on the same date last year.

Of those committed during the year, 5,971 were married and 9,908 were single.

Habits of life of those committed to Gaols:
In 1923, number of commitments, 13,990; temperate, 6,540; percentage, 46.7.
In 1924, number of commitments, 15,679; temperate, 7,256; percentage, 45.7.

15.91 per cent. of the prisoners committed to the gaols during the past year could not read or write.

Number of days' stay of prisoners:	
In 1923	189,220
In 1924	203,834
Showing an increase of days	14,614

Escapes and captures:

Eight prisoners escaped during the year, of whom five were recaptured.

Deaths in Gaols:

In 1923	15
In 1924	10

COMMON GAOLS.

The following table shows the number of prisoners committed to the Common Gaols in the Province in each year, from 1st October, 1913, to 30th September, 1924.

Date of Commitment.	Men over 16 years of age.	Boys under 16 years of age.	Women over 16 years of age.	Girls over 16 years of age.	Totals.
Commitments for the year ending 30th September, 1913	17,442	85	1,713	10	19,250
" " " 1914	21,024	84	1,665	4	22,777
" " " 1915	18,566	90	1,669	12	20,337
" " " 1916	14,506	80	1,502	12	16,100
" " " 1917	11,417	142	878	8	12,445
" " " 1918	12,182	136	914	10	13,242
" " " 1919	12,034	183	872	7	13,096
" " " 1920	13,759	106	882	9	14,756
" " " 1921	16,526	93	1,168	13	16,800
" " " 1922	13,360	126	1,300	14	14,800
" " " 1923	12,766	80	1,135	14	13,995
" " " 1924	14,564	78	1,211	26	15,879

The disposition made of the persons committed to the gaols of the Province is set forth in the table printed below:

	1924
Acquitted on being brought to trial, and discharged	4,478
Discharged without trial by order of judges, magistrates and courts, including remand cases	961
Detained for want of sureties to keep the peace	15
Detained as witnesses	56
Detained as fraudulent debtors	16
Detained as lunatics, idiots and persons unsafe to be at large	352
Died before trial	2
Detained by civil processes other than above	69
Waiting trial and otherwise detained on 30th September, 1924	190
Found guilty and sentenced	8,834
Discharged under suspended sentence	906
Total number of commitments	15,879

The places of confinement to which the convicted persons were sentenced are set forth in the following statement, and similar information is given as regards the sentenced prisoners of the previous year:

	1923	1924
Sentenced to Kingston Penitentiary	242	309
" to the Industrial School	288	560
" direct to the Ontario Reformatory	1,497	1,536
" to the Common Gaols and subsequently transferred to the Ontario Reformatory	2,411	2,556
" direct to the Reformatory for Females	94	85
" to the Common Gaols and subsequently transferred to the Reformatory for Females	70	55
" to the Common Gaols and there detained until the expiration of sentence	3,424	3,725
Died while undergoing sentence	10	8
Totals	8,036	8,834

The summaries given below show the nature of the offence committed by the convicted persons:

1. Crimes against the Person.

	Total Commitments for the year.	Number found guilty and sentenced.
Assault, common	366	186
Assault, felonious	163	84
Cutting and wounding, stabbing and shooting with intent	42	24
Rape and assault with intent	41	21
Murder	28	9
Manslaughter	21	5
Attempted suicide	24	2
Totals	685	331

2. Crimes against Property.

	Total Commitments for the year.	Number found guilty and sentenced.
Arson and incendiarism	38	22
Burglary	326	104
Counterfeiting and passing counterfeit money	2	2
Destroying and injuring property	48	22
Embezzlement	....	....
Forgery	100	54
Fraud and obtaining money and goods under false pretences.	403	177
Horse, cattle and sheep stealing	22	15
Housebreaking and robbery	459	219
Larceny	1,847	852
Receiving stolen goods	112	40
Trespass	466	280
Miscellaneous	232	31
Totals	4,055	1,818

3. Crimes against Public Morals and Decency.

	Total Commitments for the year.	Number found guilty and sentenced.
Bigamy	53	28
Inmates and frequenters of houses of ill-fame	276	110
Keeping houses of ill-fame	142	98
Perjury	43	20
Seduction	73	24
Indecent assault and exposure	166	81
Miscellaneous	67	27
Totals	820	388

4. Offences against Public Order and Peace.

	Total Commitments for the year.	Number found guilty and sentenced.
Abusive and obscene language	9	3
Breaches of peace, breaches of by-laws, escapes from and obstructing constables	180	111
Carrying unlawful weapons	73	38
Deserting employment, etc	2	2
Drunk and disorderly	4,027	2,894
Deserting the militia	5	2
Selling liquor without a license and selling or giving it to Indians	1,341	891
Threatening and seditious language	14	7
Vagrancy	2,028	969
Miscellaneous	33	22
Totals	7,712	4,939
Lunatics and contempt of court, etc	451	92
Other offences, not classified in foregoing	2,256	1,266
Grand total	15,879	8,834

The following tables show the period of sentence passed on the convicted prisoners and the sex, social conditions, habits, etc., of the total number of prisoners committed:

PERIODS OF SENTENCE.

	1923	1924
For periods under thirty days	2,745	2,834
For thirty days and up to sixty days or two months, not including the last term	1,505	1,869
For sixty days, or two months	468	614
Over two months to three months	1,156	1,293
Over three months to four months	233	229
Over four months to five months	64	90
Over five months to six months	589	533
Over six months to nine months	165	127
Over nine months up to one year, inclusive	197	227
Over one year and up to two years	220	522
Over two years and up to three years in the Penitentiary	153	184
Over three years in the Penitentiary	92	110
For periods of any length in the Industrial Schools	430	188
Sentenced to death and executed	2	3
Sentenced to death and commuted to imprisonment	2	3
Sentenced to imprisonment with corporal punishment	15	8
	8,036	8,834

SEX.

	1923	1924
Male	12,846	14,642
Female	1,149	1,237
	13,995	15,879

SOCIAL CONDITIONS.

Married	5,757	5,971
Unmarried	8,238	9,908
	13,995	15,879

HABITS.

Temperate	6,540	7,256
Intemperate	7,455	8,623
	13,995	15,879

EDUCATIONAL STATUS.

Could read and write	11,839	13,342
Could neither read nor write	2,156	2,537
	13,995	15,879

NATIONALITY.

Canadian	9,243
English	1,212
Irish	527
Scotch	583
United States	1,011
Other countries	3,303
	15,879

RELIGIOUS DENOMINATIONS.

Roman Catholic	6,872
English Church	2,660
Presbyterian	1,687
Methodist	1,901
Other denominations	2,759
	15,879

The number of prisoners confined in the various custodial institutions of the Province at the close of the past official year, and the year preceding, is exhibited in the following summary:

	1923	1924
In the Common Gaols	496	592
In the Reformatory for Females and Refuge for Girls, Toronto	143	147
In the Dominion Penitentiary, Kingston	691	697
In the Industrial Farm, Burwash	268	375
In the Industrial Farm, Fort William	67	56
In the Toronto Municipal Farm, Langstaff	185	234
In the Ontario Reformatory Clay Plant, Mimico	97	95
In the Ontario Reformatory, Guelph	425	509
	2,372	2,705

A summary is given below showing the days' stay respectively of those prisoners whose maintenance was chargeable to the Province and of those who were a charge on the Municipalities:

		Days' Stay.
5,005	Criminal prisoners remained in gaol	88,437
10,874	Municipal prisoners remained in gaol	115,397
15,879	Prisoners in all remained in gaol	203,834

TABLE No. 1.

Showing total number of prisoners, male and female, sentenced under each offence, during the year ending 30th September, 1924.

Offences.	Male.	Female.	Total.
Abortion	1	2	3
Abusive and obscene language	2	1	3
Arson	18	4	22
Assault	184	2	186
Assault, felonious	83	1	84
Attempted suicide	1	1	2
Abduction	5	.....	5
Bigamy	22	6	28
Breaches of the peace	20	1	21
Breaches of by-laws	25	1	26
Burglary	102	2	104
Contempt of court	90	.....	90
Carrying unlawful weapons	38	.....	38
Counterfeiting and passing counterfeit money	2	.....	2
Cruelty to animals	3	.....	3
Cutting, wounding or attempting same	17	1	18
Destroying and injuring property	19	3	22
Drunk and disorderly	2,815	79	2,894
Deserting militia	2	.....	2
Deserting employment	2	.....	2
Escaping from or obstructing constables	14	8	22
Escaping from prison	40	2	42
Forging	51	3	54
Fraud or obtaining money or goods under false pretences	166	11	177
Gambling	31	.....	31
Giving liquor to Indians	3	1	4
Horse, cattle or sheep stealing	14	1	15
Housebreaking and robbery	218	1	219
Incendiarism	.....	.....	.....
Indecent assault and exposure	81	.....	81
Inmates and frequenters of houses of ill-fame	59	51	110
Keepers of houses of ill-fame	44	54	98
Larceny	801	51	852
Manslaughter	4	1	5
Misdemeanour	16	2	18
Murder	8	1	9
Perjury	18	2	20
Prostitution	.....	19	19
Rape and assault with intent	21	.....	21
Refusing bail	1	1	2
Receiving stolen property	35	5	40
Seduction	24	.....	24
Selling liquor without license and breaches O.T.A	824	63	887
Shooting with intent	5	.....	5
Stabbing	1	.....	1
Threatening and seditious language	7	.....	7
Trespass	279	1	280
Unlawful shooting	1	.....	1
Vagrancy	903	66	969
Other offences not enumerated	1,214	52	1,266
Totals	8,334	500	8,834

TABLE No. 2.

Showing the social status and habits of prisoners committed during the year ending 30th September, 1924.

Name of Gaol.	Married.	Unmarried.	Temperate	Intemperate.	Total committed to gaol.	Neither read not write.
Barrie	43	55	87	11	98	10
Belleville	91	159	233	17	250	43
Brantford	59	69	51	77	128	5
Brampton	32	50	36	46	82	3
Brockville	33	64	61	36	97	9
Bracebridge	11	13	18	6	24	2
Cayuga	12	20	15	17	32	5
Cornwall	70	64	55	79	134	54
Cobourg	42	51	72	21	93	14
Chatham	77	147	163	61	224	.....
Fort Frances	44	114	51	107	158	22
Goderich	19	46	39	26	65	7
Guelph	45	57	82	20	102	1
Gore Bay	13	17	20	10	30	8
Hamilton	401	473	261	613	874	103
Kingston	55	65	45	75	120	10
Kitchener	76	109	106	79	185	7
Kenora	25	37	62	.....	62	10
London	227	387	304	310	614	15
Lindsay	35	45	57	23	80	11
L'Orignal	13	15	20	8	28	6
Milton	22	100	95	27	122	12
Napanee	14	26	28	12	40	1
North Bay	122	251	307	66	373	66
Ottawa	348	424	382	390	772	110
Owen Sound	35	52	53	34	87	5
Orangeville	9	38	45	2	47	4
Perth	16	29	18	27	45	15
Picton	38	32	19	51	70	11
Pembroke	22	53	40	35	75	10
Peterborough	58	130	151	37	188	12
Port Arthur	154	404	186	372	558	75
Parry Sound	64	88	102	50	152	27
Simcoe	33	31	34	30	64	7
St. Catharines	85	103	72	116	188	34
Sarnia	76	146	61	161	222	11
Stratford	21	63	70	14	84	2
Sandwich	245	409	430	224	654	49
St. Thomas	75	87	153	9	162	10
Sault Ste. Marie	87	155	60	182	242	62
Sudbury	231	1,049	84	1,196	1,280	424
Toronto	2,433	3,713	2,632	3,514	6,146	1,107
Walkerton	25	21	33	13	46	7
Woodstock	39	71	91	19	110	11
Welland	184	229	146	267	413	89
Whitby	88	75	93	70	163	29
Lock-ups.						
Atikokan	1	4	2	3	5	2
Byng Inlet	6	1	2	5	7	.....
Cobalt	16	64	27	53	80	.....
Mine Centre	1	3	2	2	4	.....
Totals	5,971	9,908	7,256	8,623	15,879	2,537

TABLE

Showing the number of persons committed, the number over and under sixteen years of age, unsound mind, number acquitted on trial, number discharged without trial, number

Name of gaol.	Total number committed during the year.			Number under 16 years of age.			Number over 16 years of age.			For the first time.	For the second time
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.		
Barrie	92	6	98	1	1	2	91	5	96	65	25
Belleville	234	16	250	9	.....	9	225	16	241	196	25
Brantford	119	9	128	.....	.....	.....	119	9	128	68	17
Brampton	78	4	82	.....	.....	.....	78	4	82	58	16
Brockville	95	2	97	.....	.....	.....	95	2	97	80	11
Bracebridge	23	1	24	1	.....	1	22	1	23	17	5
Cayuga	31	1	32	.....	.....	.....	31	1	32	24	6
Cornwall	123	11	134	1	3	4	122	8	130	68	24
Cobourg	84	9	93	1	.....	1	83	9	92	66	17
Chatham	209	15	224	4	1	5	205	14	219	152	50
Fort Frances	150	8	158	2	1	3	148	7	155	148	7
Goderich	62	3	65	2	1	3	60	2	62	50	9
Guelph	99	3	102	2	.....	2	97	3	100	51	27
Gore Bay	25	5	30	.....	.....	.....	25	5	30	19	9
Hamilton	782	92	874	6	.....	6	776	92	868	462	135
Kingston	109	11	120	.....	.....	.....	109	11	120	101	9
Kitchener	165	20	185	5	.....	5	160	20	180	122	37
Kenora	55	7	62	2	1	3	53	6	59	56	6
London	552	62	614	1	.....	1	551	62	613	362	128
Lindsay	73	7	80	1	.....	1	72	7	79	62	10
L'Orignal	24	4	28	.....	.....	.....	24	4	28	27	1
Milton	116	6	122	.....	.....	.....	116	6	122	106	6
Napanee	37	3	40	1	1	2	36	2	38	35	5
North Bay	373	.....	373	1	.....	1	372	.....	372	333	28
Ottawa	677	95	772	5	1	6	672	94	766	725	37
Owen Sound	82	5	87	.....	.....	.....	82	5	87	43	18
Orangeville	45	2	47	2	.....	2	43	2	45	39	8
Perth	41	4	45	.....	.....	.....	41	4	45	35	5
Picton	69	1	70	6	.....	6	63	1	64	63	4
Pembroke	73	2	75	1	.....	1	72	2	74	74	1
Peterborough	184	4	188	.....	.....	.....	184	4	188	85	41
Port Arthur	532	26	558	.....	.....	.....	532	26	558	546	12
Parry Sound	143	9	152	.....	.....	.....	143	9	152	137	13
Simcoe	57	7	64	1	1	2	56	6	62	57	7
St. Catharines	176	12	188	.....	.....	.....	176	12	188	112	35
Sarnia	210	12	222	5	.....	5	205	12	217	166	43
Stratford	81	3	84	.....	.....	.....	81	3	84	65	16
Sandwich	654	.....	654	.....	.....	.....	654	.....	654	601	12
St. Thomas	151	11	162	.....	1	1	151	10	161	93	37
Sault Ste.Marie	217	25	242	1	.....	1	216	25	241	191	25
Sudbury	1,242	38	1,280	2	1	3	1,240	37	1,277	1,128	52
Toronto	5,505	641	6,146	11	13	24	5,494	628	6,122	2,550	1,720
Walkerton	43	3	46	1	.....	1	42	3	45	41	3
Woodstock	103	7	110	.....	.....	.....	103	7	110	102	5
Welland	400	13	413	2	.....	2	398	13	411	322	59
Whitby	153	10	163	1	.....	1	152	10	162	151	10
Lock-ups.											
Atikokan	4	1	5	.....	.....	.....	4	1	5	1	2
Byng Inlet	6	1	7	.....	.....	.....	6	1	7	6	1
Cobalt	80	.....	80	.....	.....	.....	80	.....	80	80	.....
Mine Centre	4	.....	4	.....	.....	.....	4	.....	4	4	.....
Totals	14,642	1,237	15,879	78	26	102	14,564	1,211	15,775	10,144	2,790

No. 3.

the number of re-committals, the number for want of sureties to keep the peace, number of waiting trial, number sentenced, and number committed under civil process.

For the third time.	For more than the third time.	For want of sureties to keep the peace.	Witnesses.	Lunatics and idiots.	Fraudulent debtors.	Under civil process.	Acquitted on trial and discharged.	Discharged without trial.	Discharged under suspended sentence.	Died before trial.	Waiting trial.	Sentenced for any period.
4	4	.....	1	4	1	6	12	1	6	.....	4	63
19	10	1	.....	6	.....	.....	139	.....	.....	.....	3	101
8	35	.....	.....	4	.....	.....	42	.....	1	.....	.....	81
6	2	.....	.....	6	.....	.....	14	1	11	.....	1	49
5	1	.....	.....	3	.....	.....	4	.....	13	.....	8	69
1	1	1	.....	4	.....	.....	.....	2	1	.....	.....	16
.....	2	.....	.....	1	.....	.....	2	.....	2	.....	1	26
5	37	.....	.....	2	3	.....	2	.....	9	.....	3	115
6	4	.....	2	2	.....	10	12	.....	15	.....	2	50
13	9	.....	2	8	.....	.....	41	.....	42	.....	8	123
2	1	.....	.....	9	.....	.....	19	.....	2	.....	2	126
3	3	.....	.....	4	.....	.....	.....	1	14	.....	2	44
13	11	.....	.....	1	.....	.....	9	.....	7	.....	.....	85
2	.....	.....	2	2	.....	.....	4	.....	2	.....	2	18
67	210	12	.....	.....	.....	.....	27	226	18	.....	6	585
3	7	.....	.....	.....	.....	.....	14	20	6	.....	.....	80
12	14	.....	.....	8	.....	.....	2	67	21	.....	2	85
.....	.....	.....	.....	2	1	.....	17	1	4	.....	1	36
28	96	.....	.....	25	.....	.....	299	.....	1	.....	4	285
4	4	.....	.....	11	.....	2	3	.....	17	.....	2	45
.....	.....	.....	.....	1	1	2	.....	5	.....	.....	5	14
2	8	.....	.....	.....	.....	48	11	3	8	.....	2	50
.....	.....	.....	.....	.....	2	.....	5	5	.....	.....	.....	28
6	6	.....	.....	31	.....	.....	44	.....	3	.....	8	287
9	1	.....	.....	.....	.....	.....	469	.....	.....	.....	13	290
10	16	.....	.....	2	.....	.....	6	5	4	.....	.....	70
.....	.....	.....	.....	2	.....	.....	2	.....	2	.....	.....	41
1	4	.....	.....	1	.....	.....	2	1	1	.....	.....	40
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
.....	.....	.....	.....	2	.....	.....	9	.....	4	.....	.....	60
25	37	.....	.....	1	.....	.....	2	89	.....	.....	.....	96
.....	.....	.....	.....	26	.....	.....	40	.....	7	.....	3	482
2	.....	.....	1	6	.....	.....	70	.....	.....	.....	1	74
.....	.....	.....	1	2	1	.....	11	.....	18	.....	.....	31
17	24	.....	.....	.....	.....	.....	35	.....	5	.....	4	144
8	5	.....	.....	.....	.....	.....	6	95	5	.....	4	112
2	1	.....	.....	1	.....	.....	2	27	19	.....	2	33
5	36	1	2	2	.....	.....	299	.....	10	.....	12	328
21	11	.....	.....	.....	.....	.....	77	37	12	.....	5	31
13	13	.....	.....	21	.....	.....	27	16	.....	.....	5	173
50	50	.....	.....	27	.....	.....	52	249	20	.....	6	926
1,183	693	.....	43	110	6	1	2,611	6	535	.....	59	2,775
1	1	.....	2	5	.....	.....	1	10	1	1	2	24
2	1	.....	.....	4	.....	.....	4	12	41	.....	1	48
15	17	.....	.....	.....	.....	.....	3	82	5	1	3	319
1	1	.....	.....	4	1	.....	14	.....	14	.....	4	126
2	.....	.....	.....	1	.....	.....	4	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80
.....	.....	.....	.....	1	.....	.....	3	.....	.....	.....	.....	.....
1,576	1,379	15	56	352	16	69	4,478	961	906	2	190	8,834

TABLE

Showing the number of prisoners upon whom sentences were passed, the nature of such Criminal Court during the year

Name of Gaol.	Total number of prisoners sentenced during the year.			Where sentenced to.					
	Male.	Female.	Total.	To gaol and afterwards transferred to the Reformatory.	To Reformatory for Ontario direct.	To gaol and afterwards transferred to female Reformatory.	To female Reformatory direct.	To Penitentiary.	Sentenced elsewhere.
Barrie	59	4	63	7	24		4	7	4
Belleville	91	10	101	5	12	9		5	4
Brantford	78	3	81	4	5		3	3	
Brampton	48	1	49		9				8
Brockville	68	1	69		10			2	
Bracebridge	15	1	16	4				3	
Cayuga	26		26		5				7
Cornwall	110	5	115	27	23			1	2
Cobourg	46	4	50		16	2	2		30
Chatham	121	2	123	12	14			1	
Fort Frances	122	4	126	12	1			1	
Goderich	42	2	44	2	6			2	
Guelph	84	1	85		31			16	1
Gore Bay	15	3	18		5		2		
Hamilton	538	47	585	62	73	1	20	24	
Kingston	74	6	80	7	2			2	
Kitchener	81	4	85		25		4	8	
Kenora	34	2	36	12					
London	271	14	285	25	20	5		4	
Lindsay	42	3	45	3	17		2	4	
L'Orignal	11	3	14				1	2	1
Milton	47	3	50		8		3	4	
Napanee	25	3	28	3	2				
North Bay	267	20	287	128		9		6	
Ottawa	260	30	290	14	35		4	8	4
Owen Sound	66	4	70	3	15		3	7	
Orangeville	39	2	41					3	1
Perth	37	3	40	3	8		1		
Picton	69	1	70		1			1	
Pembroke	59	1	60	6				1	
Peterborough	94	2	96	2	32		2	4	53
Port Arthur	463	19	482	428		2	3	13	
Parry Sound	72	2	74	37				2	
Simcoe	30	1	31	1	5		1	3	
St. Catharines	137	7	144	33	4			2	
Sarnia	107	5	112		34		2	5	3
Stratford	31	2	33	2	11		1	1	
Sandwich	306	22	328		76	10		17	6
St. Thomas	28	3	31	1	15		2		1
Sault Ste. Marie	160	13	173	35		1	4	5	
Sudbury	910	16	926	282	183		1	14	248
Toronto	2,482	293	2,775	1,298	803	13	19	101	107
Walkerton	23	1	24		1			3	
Woodstock	47	1	48		5		1	9	
Welland	307	12	319	61				9	
Whitby	120	6	126	37		3		6	
Lock-ups:									
Atikokan									
Byng Inlet									
Cobalt	80		80						80
Mine Centre									
Totals	8,242	592	8,834	2,556	1,536	55	85	309	560

No. 4

sentences, and the disposal of those who elected to be tried at the County Judge's ending September 30th, 1924.

Died while undergoing sentence.	To gaol and there detained until expiration of sentence or payment of fine.	Capital and corporal sentences.			County Judge's criminal court.		
		Number of prisoners sentenced to death and executed.	Number of prisoners sentenced to death and commuted to imprisonment.	Number of prisoners sentenced to corporal punishment with imprisonment.	Acquitted on trial and discharged from custody.	Found guilty and sentenced.	Total number who elected to be tried.
.....	17	.....	.....	3	2	5	7
.....	66	.....	.....	2	3	1	4
.....	66	.....	.....	.....	.....	.....	.....
.....	32	.....	.....	.....	1	.....	1
.....	57	.....	.....	.....	3	4	7
.....	9	.....	.....	.....	.....	.....	.....
.....	14	.....	.....	.....	.....	1	1
.....	62	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	3	5	8
.....	96	.....	.....	.....	1	6	7
.....	112	.....	.....	.....	2	.....	2
.....	34	.....	.....	.....	2	8	10
.....	37	.....	.....	.....	1	6	7
.....	11	.....	.....	.....	.....	1	1
.....	405	.....	.....	.....	28	130	158
.....	69	.....	.....	.....	1	7	8
.....	48	.....	.....	.....	1	1	2
.....	24	.....	.....	.....	2	1	3
.....	231	2	1	.....	1	3	4
.....	19	.....	.....	.....	1	3	4
.....	10	.....	.....	.....	1	3	4
.....	35	.....	.....	.....	2	3	5
.....	23	.....	.....	2	.....	2	2
.....	144	.....	.....	.....	.....	3	3
1	224	.....	.....	.....	8	1	9
.....	42	.....	.....	2	1	1	2
3	34	.....	.....	.....	1	.....	1
.....	28	.....	.....	.....	3	.....	3
.....	68	.....	.....	.....	.....	.....	.....
1	52	.....	.....	.....	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....
.....	36	.....	.....	.....	4	14	18
.....	35	.....	.....	.....	3	2	5
.....	21	.....	.....	.....	1	.....	1
.....	105	.....	.....	.....	1	2	3
.....	68	.....	.....	.....	9	6	15
.....	18	.....	.....	1	.....	2	2
.....	219	.....	1	.....	3	9	12
.....	12	.....	.....	1	15	10	25
.....	128	.....	.....	.....	3	6	9
.....	198	.....	.....	.....	3	7	10
2	432	.....	.....	2	42	192	234
.....	20	.....	.....	.....	.....	1	1
.....	33	.....	.....	.....	.....	2	2
1	248	1	1	.....	9	3	12
.....	80	.....	.....	.....	14	126	140
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
8	3,725	3	3	13	175	577	752

TABLE

Showing the number of prisoners, how maintained, cost of maintenance, and

Name of Gaol.	Name of gaoler.	How maintained.				
		Total number of prisoners committed during the year.	Number of prisoners whose maintenance was defrayed by the Province.	Number of prisoners whose maintenance was defrayed by the municipalities.	Number of days' custody of Government prisoners.	Number of days' custody of municipal prisoners.
Barrie	J. I. D. Banting	98	34	64	1,582	1,406
Belleville	T. Ketcheson	250	116	134	1,744	2,358
Brantford	Jno Cook	128	30	98	227	346
Brampton	W. A. Partridge	82	38	44	1,017	560
Brockville	T. A. McLean	97	67	30	1,219	713
Bracebridge	D. McDonald	24	24	.....	915	.....
Cayuga	T. Walsh (Acting)	32	20	12	599	349
Cornwall	T. W. Ault	134	41	93	958	1,099
Cobourg	G. L. McLaughlin	93	53	40	1,455	1,020
Chatham	M. W. Shaw	224	95	129	2,528	2,498
Fort Frances	R. Bolton	158	158	.....	2,227	.....
Goderich	J. B. Reynolds	65	35	30	996	673
Guelph	F. L. Cosby	102	64	38	1,097	493
Gore Bay	S. Cronkhite	30	30	.....	1,863	.....
Hamilton	F. Lalonde	874	286	588	5,494	8,761
Kingston	J. T. Hawkey	120	37	83	777	1,633
Kitchener	J. Cook	185	58	127	1,218	1,861
Kenora	E. Cox	62	62	.....	2,066	.....
London	B. L. Dawson	614	147	467	2,234	5,185
Lindsay	H. W. Stone	80	41	39	959	1,232
L'Orignal	F. Millette	28	11	17	303	1,022
Milton	A. McGibbon	122	37	85	999	1,216
Napanee	W. E. Loyst	40	15	25	335	172
North Bay	J. W. Bourke	373	373	.....	7,025	.....
Ottawa	A. G. Dawson	772	108	664	4,010	7,999
Owen Sound	W. A. Grier	87	46	41	1,314	1,067
Orangeville	G. A. Leighton	47	8	39	69	3,577
Perth	J. Oates	45	18	27	552	1,352
Picton	E. Croft	70	24	40	182	252
Pembroke	W. Brown	75	23	52	746	1,085
Peterborough	H. Nesbitt	188	57	131	907	1,711
Port Arthur	G. F. Lasseter	558	115	443	1,738	3,889
Parry Sound	T. W. Keating	152	152	.....	2,404	.....
Simcoe	O. Robertson	64	29	35	569	597
St. Catharines	J. J. Dundas	188	38	150	1,419	2,263
Sarnia	J. N. Dodd	222	71	151	1,059	2,825
Stratford	A. T. Trethewey	84	40	44	1,390	1,254
Sandwich	W. A. Wanless	654	140	514	3,891	8,611
St. Thomas	W. F. Luton	162	55	107	810	1,076
Sault Ste. Marie	R. M. Hearst	242	242	.....	7,978	.....
Sudbury	J. Sullivan	1,280	238	1,042	2,126	5,679
Toronto	G. H. Basher	6,146	1,314	4,832	10,001	32,333
Walkerton	W. Hyndman	46	23	23	666	964
Woodstock	R. G. Forbes	110	38	72	874	1,064
Welland	J. Kottmeier	413	118	295	3,459	4,126
Whitby	J. Stiner	163	140	23	2,436	1,086
Lock-ups:						
Atikokan	J. L. McGregor	5	5	.....	.....	.....
Byng Inlet	B. Moore	7	7	.....	.....	.....
Cobalt	A. Parcher	80	80	.....	.....	.....
Mine Centre	J. R. Gilbert	4	4	.....	.....	.....
Totals	.....	15,879	5,005	10,874	88,437	115,397

No. 5

Salaries of various gaol officials for the year ended 30th September, 1924.

Expenditure.					Salaries.			
Cost of fuel, food and clothing	Cost of official salaries.	Cost of repairs.	Total gaol expenditure for the year.	Average cost per prisoner for entire gaol expenditure.	Gaolers.	Turnkeys.	Matrons.	Gaol surgeons.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,307 72	3,084 00	1,670 05	7,061 77	72 06	1,100 00	1,184 00	500 00	300 00
3,777 44	2,000 00	40 00	5,817 44	23 27	700 00	650 00	400 00	250 00
1,437 87	3,800 14	761 43	5,999 44	46 87	1,300 00	1,789 14	375 00	336 00
1,321 62	1,585 00	83 00	2,989 62	36 46	720 00	515 00	250 00	100 00
794 89	2,312 50	73 91	3,181 30	32 80	1,150 00	812 50	200 00	150 00
410 64	1,200 00	14 46	1,625 10	67 71	900 00	.....	150 00	150 00
605 26	800 00	.....	1,405 26	43 91	600 00	.....	200 00	.....
1,738 15	2,530 25	59 53	4,327 93	32 30	1,500 00	574 00	306 25	150 00
5,120 35	1,853 00	905 10	7,878 45	84 71	1,000 00	453 00	200 00	200 00
2,386 52	3,400 00	.....	5,786 52	25 83	1,000 00	1,800 00	400 00	200 00
797 31	2,300 00	.....	3,097 31	19 60	900 00	1,100 00	300 00	.....
864 47	1,945 00	28 94	2,838 41	43 67	800 00	800 00	225 00	120 00
311 47	2,250 00	.....	2,561 47	25 11	900 00	850 00	300 00	200 00
686 20	912 00	19 75	1,617 95	53 93	612 00	.....	300 00	.....
3,752 90	11,680 00	790 46	16,223 36	18 56	1,500 00	9,200 00	500 00	480 00
1,967 52	3,895 00	100 00	5,962 52	49 69	1,350 00	1,920 00	400 00	225 00
1,944 03	2,507 03	103 11	4,554 17	24 62	1,100 00	958 75	313 28	135 00
2,022 80	2,314 00	.....	4,336 80	69 95	900 00	1,014 00	200 00	200 00
2,326 87	9,879 62	54 47	12,260 96	19 97	1,320 00	6,967 41	1,242 21	350 00
1,255 31	2,100 00	6 02	3,361 33	42 02	900 00	900 00	200 00	100 00
509 96	1,830 30	.....	2,340 26	83 58	750 00	730 30	250 00	100 00
643 60	1,650 00	16 45	2,310 05	18 93	800 00	600 00	200 00	50 00
540 57	1,275 00	10 00	1,825 57	45 64	1,000 00	.....	200 00	75 00
4,282 60	5,868 99	30 67	10,182 26	27 30	828 00	4,605 99	285 00	150 00
7,793 17	9,215 59	159 39	17,168 15	22 24	2,000 00	6,170 59	680 00	365 00
1,568 11	2,650 00	25 00	4,243 11	48 77	1,200 00	900 00	300 00	250 00
1,069 73	1,525 00	73 13	2,667 86	56 76	1,000 00	400 00	125 00	.....
2,655 65	2,142 00	998 46	5,796 11	128 80	1,000 00	800 00	242 00	100 00
366 27	975 00	114 52	1,455 79	20 80	700 00	.....	200 00	75 00
919 32	2,255 00	.....	3,174 32	42 32	1,200 00	730 00	225 00	100 00
636 57	1,950 00	.....	2,586 57	13 76	900 00	700 00	200 00	150 00
3,375 81	6,156 00	.....	9,531 81	17 08	1,200 00	4,404 00	300 00	252 00
859 96	2,162 50	26 00	3,048 46	20 06	900 00	912 50	200 00	150 00
807 06	2,125 00	598 65	3,530 71	55 17	840 00	960 00	250 00	75 00
2,260 38	2,850 00	349 36	5,459 74	29 04	1,200 00	1,200 00	300 00	150 00
1,992 71	2,575 00	639 48	5,207 19	23 46	1,075 00	900 00	400 00	200 00
1,571 53	2,597 00	911 87	5,080 40	60 48	1,000 00	977 00	470 00	150 00
5,341 37	7,850 00	10 00	13,201 37	20 18	1,500 00	5,250 00	600 00	500 00
1,738 92	2,788 25	358 25	4,885 42	30 15	1,000 00	1,303 33	335 00	149 92
4,474 21	4,100 00	311 55	8,885 76	36 72	840 00	2,760 00	200 00	300 00
1,705 68	3,955 00	.....	5,660 68	4 42	1,000 00	2,555 00	250 00	150 00
12,843 13	31,417 94	2,351 88	46,612 88	7 58	3,087 12	22,976 42	3,854 40	1,500 00
750 00	1,750 00	350 00	2,850 00	61 96	800 00	600 00	250 00	100 00
2,168 34	2,322 99	295 10	4,786 43	43 51	900 00	328 00	970 00	124 99
3,185 76	3,263 50	185 42	6,634 68	16 06	1,056 00	1,710 50	297 00	200 00
1,357 27	2,000 00	338 89	3,696 16	22 68	800 00	1,000 00	200 00	.....
.....	150 00	.....	150 00	.....	150 00	.....	.....	.....
.....	300 00	.....	300 00	.....	300 00	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	300 00	.....	300 00	.....	300 00	.....	.....	.....
101,247 03	172,347 60	12,864 32	286,458 95	.....	49,578 12	94,961 43	18,745 14	9,062 91

TABLE No. 6

Showing the total number of prisoners who were in the several gaols in the Province on the evening of the 30th September, 1924, and the nature of their imprisonment; also number of cells in each gaol.

Name of Gaol.	Classification.				Nature of Imprisonment.						Total number of persons who remained in custody 30th Sept., 1924.	Total number of cells.
	Men.	Women.	Boys under 16 years.	Girls under 16 years.	Waiting trial.	Under sentence for periods of 2 months and under.	Under sentence for periods over 2 months.	In default of sureties to keep the peace.	Insane, idiotic, or imbecile persons.	Otherwise detained.		
Barrie	10	...	...	...	4	1	5	...	...	...	10	23
Belleville	12	1	...	...	3	...	10	...	...	...	13	38
Brantford	10	...	...	...	...	6	4	...	...	...	10	24
Brampton	4	...	...	...	...	1	3	...	...	...	4	25
Brockville	3	...	...	...	...	1	2	...	...	...	3	33
Bracebridge	3	...	...	...	...	1	2	...	...	...	3	15
Cayuga	4	...	...	...	1	1	2	...	...	...	4	14
Cornwall	15	...	...	...	3	4	8	...	...	...	15	17
Cobourg	3	...	...	...	2	...	1	...	...	...	3	24
Chatham	19	2	...	...	8	7	6	...	...	...	21	38
Fort Frances	6	...	...	...	2	3	1	...	...	...	6	10
Goderich	5	...	...	...	2	1	2	...	...	...	5	12
Guelph	4	...	...	...	...	1	3	...	...	...	4	18
Gore Bay	8	2	...	...	2	...	8	...	...	...	10	12
Hamilton	51	1	...	...	6	28	13	1	...	4	52	75
Kingston	10	1	...	...	...	3	8	...	...	...	11	49
Kitchener	7	...	...	...	2	3	...	...	2	...	7	20
Kenora	5	...	...	...	2	...	3	...	...	...	5	14
London	15	3	...	...	6	5	7	...	...	...	18	57
Lindsay	3	...	...	...	2	1	...	...	...	...	3	24
L'Orignal	8	1	...	...	5	...	3	...	1	...	9	18
Milton	4	...	...	...	...	1	2	...	...	1	4	78
Napanee	...	...	...	...	...	...	...	...	...	...	...	18
North Bay	19	3	...	...	8	5	6	...	2	1	22	20
Ottawa	32	11	...	...	1	9	23	...	...	10	43	93
Owen Sound	4	...	...	...	...	2	2	...	...	...	4	32
Orangeville	10	1	...	...	...	1	10	...	...	...	11	22
Perth	2	1	...	...	...	...	1	...	...	2	3	18
Picton	...	...	...	...	...	...	...	...	...	...	...	18
Pembroke	5	...	1	...	...	...	6	...	...	...	6	24
Peterborough	3	...	...	...	...	1	2	...	...	...	3	18
Port Arthur	15	6	...	...	3	5	11	...	2	...	21	40
Parry Sound	5	...	...	...	1	1	3	...	...	...	5	26
Simcoe	2	1	...	...	...	...	3	...	...	...	3	18
St. Catharines	7	...	...	...	4	1	2	...	...	...	7	38
Sarnia	14	...	...	...	5	7	2	...	...	...	14	13
Stratford	3	1	...	...	2	1	1	...	...	...	4	30
Sandwich	24	2	...	...	11	4	11	...	...	...	26	58
St. Thomas	8	...	...	...	...	5	3	...	...	...	8	16
Sault Ste. Marie	22	1	1	...	5	4	15	...	...	...	24	23
Sudbury	17	1	...	...	7	10	1	...	...	...	18	22
Toronto	93	14	...	...	63	14	18	...	6	6	107	270
Walkerton	6	...	...	...	1	...	4	...	...	1	6	24
Woodstock	3	...	...	...	1	...	2	...	...	...	3	32
Welland	19	1	...	...	4	14	2	...	...	...	20	48
Whitby	12	2	...	...	3	...	7	...	...	4	14	28
Lock-ups:												
Atikokan	...	...	...	...	...	...	...	...	...	...	...	3
Byng Inlet	...	...	...	...	...	...	...	...	...	...	...	7
Cobalt	...	...	...	...	...	...	...	...	...	...	...	6
Mine Centre	...	...	...	...	...	...	...	...	...	...	...	3
	534	56	2	...	169	152	228	1	13	29	592	1,546

TABLE No. 7

Showing the number of escapes and deaths, the revenue derived from prison labour, the cost of diet, the accommodation of the various gaols and the highest and lowest number of prisoners in custody during the year ending September 30th, 1924.

Name of Gaol.	Prisoners who escaped and evaded recapture.	Prisoners who escaped and were re-captured.	Prisoners who died.	Number of cells in each gaol.	Greatest number of prisoners confined in gaol at any time during the year.	Lowest number of prisoners confined in gaol at any time during the year.	Actual cash revenue derived from prison labour.	Cost of daily rations for prisoners.
							$ c.	Cents
Barrie	1			23	16	3		16.40
Belleville				38	22	5		17.61
Brantford				24	21	2		15.80
Brampton				25	10	1		14.25
Brockville				33	15	1		16.46
Bracebridge				15	6			15.40
Cayuga				14	6	1		13.00
Cornwall				17	16	1		19.00
Cobourg				24	19	2		15.00
Chatham				28	28	8		10.00
Fort Frances				10	16	3		18.00
Goderich				12	9	2		12.50
Guelph				18	10	1		15.00
Gore Bay				12	10	3		45.00
Hamilton				75	64	17		10.05
Kingston		1		49	14	1	3,000 00	15.50
Kitchener				20	16	1		13.12
Kenora				14	12	1		16.70
London		1		57	37	9		11 47
Lindsay				24	14			12.78
L'Orignal	1			18	11	1		22.00
Milton				78	15			14.91
Napanee				18	5			11.81
North Bay				20	45	9		16.50
Ottawa	1		1	93	64	17	439 63	16.00
Owen Sound				32	14	2		17.82
Orangeville			3	22	14	7		19.33
Perth				18	11	1		15.36
Picton		1		18	5	1		9.00
Pembroke			1	24	12	1		11.50
Peterborough				18	17			18.50
Port Arthur				40	28	8		15.60
Parry Sound				26	14	2		20.75
Simcoe				18	13	1		14.00
St. Catharines				38	25	4		15.00
Sarnia				13	22	3		14.50
Stratford				30	14	2		10.30
Sandwich				58	56	16		15.75
St. Thomas				16	15	3		11.00
Sault Ste. Marie		2		23	34	11		22.49
Sudbury				22	53	6		21.00
Toronto				270	163	63		19.00
Walkerton			1	24	9	3		14.00
Woodstock				32	15	1		14.73
Welland			2	48	30	8		12.00
Whitby				28	17	6		15.00
Lock-ups:								
Atikokan				3				
Byng Inlet				7				
Cobalt				6				
Mine Centre				3				
Totals	3	5	8	1,546	1,087	238	3,439 63	

TABLE No. 8

Showing the daily cost per prisoner in each of the gaols, excluding the District Lock-ups, for the year ending September 30th, 1924.

Name of Gaol.	Number of prisoners committed during the year.	Total days' stay of prisoners during the year.	Cost of fuel, food and clothing.	Average cost per day for each prisoner.
			$ c.	Cents.
Barrie	98	2,988	2,307 72	77.60
Belleville	250	4,102	3,777 44	92.08
Brantford	128	573	1,437 87	250.93
Brampton	82	1,577	1,321 62	83 80
Brockville	97	1,932	794 89	41.13
Bracebridge	24	915	410 64	44.87
Cayuga	32	948	605 26	63 84
Cornwall	134	2,057	1,738 15	84.49
Cobourg	93	2,475	5,120 32	206.88
Chatham	224	5,026	2,386 52	47.48
Fort Frances	158	2,227	797 31	35.80
Goderich	65	1,669	864 47	51.79
Guelph	102	1,590	311 47	19.58
Gore Bay	30	1,863	686 20	36.83
Hamilton	874	14,255	3,752 90	26.32
Kingston	120	2,410	1,967 52	81.64
Kitchener	185	3,079	1,944 03	63.14
Kenora	62	2,066	2,022 80	97.78
London	614	7,419	2,326 87	31.36
Lindsay	80	2,191	1,255 31	57.29
L'Orignal	28	1,325	509 96	30.91
Milton	122	2,215	643 60	29.05
Napanee	40	507	540 57	106.60
North Bay	373	7,025	4,282 60	60.96
Ottawa	772	12,009	7,793 17	64.89
Owen Sound	87	2,381	1,568 11	65.86
Orangeville	47	3,646	1,069 73	29.33
Perth	45	1,904	2,655 65	139.44
Picton	70	434	366 27	84.40
Pembroke	75	1,831	919 32	50.20
Peterborough	188	2,618	636 57	24.31
Port Arthur	558	5,627	3,375 81	59.99
Parry Sound	152	2,404	859 96	35.77
Simcoe	64	1,166	807 06	69.21
St. Catharines	188	3,682	2,260 38	61.39
Sarnia	222	3,884	1,992 71	51.30
Stratford	84	2,644	1,571 53	59.06
Sandwich	654	12,502	5,341 37	42.72
St. Thomas	162	1,886	1,738 92	92.20
Sault Ste. Marie	242	7,978	4,474 21	56.08
Sudbury	1,280	7,805	1,705 68	21.85
Toronto	6,146	42,334	12,843 13	33.38
Walkerton	46	1,630	750 00	46.62
Woodstock	110	1,938	2,168 34	111.87
Welland	413	7,585	3,185 76	42.00
Whitby	163	3,522	1,357 27	38.53
Totals	15,783	203,834	101,247 03	49.67

THE ONTARIO REFORMATORY, GUELPH, CANADA

Guelph, Ontario, December 1, 1924.

I have the honour to present the annual report for this institution for the year ending 31st of October, 1924.

The officers of the institution are justifiably proud of the progress made along lines of reformation and industrial effort.

We feel that best progress is made and reform has the greatest measure of progress when we have the hearty support of the great mass of solid citizenry of the Province. Accordingly, we welcome visitors and they have come this past year in great numbers.

A few years ago this property was, to a great extent, a rough piece of land, more or less of an eyesore, and the rapid improvement year by year has caused it to become, as it is at present, one of the beauty spots of Ontario. The public is allowed free access to the grounds during daylight and they have used, I am glad to say not abused, the privilege.

All the statistics in connection with the prison population are found in the report tabulated by the clerk of records. In spite of the large population, discipline has continued good and we have been able to keep them all employed. This employment has been provided in part by the industries of the institution, but also to quite a large extent in reclaiming swamp lands and stony lands on the institution property. It is becoming clear that in another year or two this rough land will all be under cultivation, adding very considerably to the amount of produce raised on the farm, but also clearly demonstrating that we must look elsewhere if we are to provide the proper amount of work for our population at that time.

It is a fundamental principle that prisoners cannot be reformed if allowed to remain in idleness. It appears to me that there is a considerable market, as I have said in former reports, in the public institutions of this Province which we have not yet found, and a special effort should be made to reach this market, and therefore increase the amount of material which can be produced in the industries.

For some years we have been endeavouring to work out a system for the classification of inmates. It is more and more evident that this cannot be done in a single institution, in other words, the more serious offenders and those more or less confirmed in crime should be sent to one institution and those who have possibly made a single mistake or who are not quite so able to resist temptation, should be confined in another. This brings up the question of a clearing house through which those sentenced should pass, receiving the proper mental and physical examination and, after consideration of their past records, sent on to their proper destination. There is no doubt, also, that we should be making a mental examination of every man in the institution. The information thus gathered is often immediately useful; certainly this information over a period of years will be useful in drafting future legislation.

You will also note that in the statistical report there is shown a considerable proportion of illiterates. May I again advise the appointment of a properly qualified school teacher to the staff of the institution.

I am glad to have this opportunity of expressing my appreciation of the loyalty and sincere efforts of the members of our staff and of the assistance we have received from the officers of the Department. The Salvation Army,

the Jesuit Priests of this parish and the Guelph Ministerial Association contributed real assistance and co-operation in the past as in former years and I wish publicly, in this way, to express our gratitude.

C. F. NEELANDS,
Superintendent.

TORONTO INDUSTRIAL FARM

Langstaff, December 4, 1924.

I have the honour to submit herewith the eighth annual report of the Toronto Municipal Farms.

During the year under review 1,850 males, an increase of 201 over the previous year, and 159 women, a decrease of 42 under the previous year, passed through the institution.

There were three deaths, two of whom were aged, and one who was admitted in a dying condition and only lived a day or two, his death being due to alcoholic poisoning.

There were four escapes from the Men's Farm and none from the Women's Farm; the four who escaped were all recaptured and punished.

The health of the institution has remained in a very satisfactory state as far as epidemic diseases are concerned. Social diseases are slightly on the decline, due to the efficient working out of the Act for the Prevention of Venereal Diseases.

The discipline of the institution remains on a high plane, there being only thirty-three cases of breaches of discipline tried in the orderly room during the twelve months; this would be an exceptionally small number in a well disciplined company of the Regular Forces.

In conclusion permit me, Sir, to thank you and other officers of your Department for the kindly consideration shown me at all times. I also wish to call to your attention the names of some of those earnest workers who have helped the institution and inmates to a better prospective by their untiring efforts; among these I would mention Canon Davidson, Church of England; Captain J. A. McElhiney and Ensign Moat of the Salvation Army; Mr. Dutton and co-workers of the Christian Science Church. Mr. J. P. Bickle, Mr. Fred. Graham of the Y.M.C.A., and many others who have assisted in entertainment and sports.

W. J. MORRISON (MAJOR),
Superintendent.

THE INDUSTRIAL FARM, BURWASH, ONTARIO, CANADA

I have the honour to submit herewith the annual report, for year ending October 31st, 1924, with financial and statistical reports covering operations of the institution for the past year.

Our average daily count is 353, which is considerably higher than last year, when it showed an average of 296. The working conditions in and around the Sudbury district are not quite so good this year, which no doubt accounts for this to a certain extent.

The health of the institution has been very satisfactory as regards epidemic diseases.

We are hoping, during the ensuing winter to start evening classes for some of the boys who are very interested in bettering themselves.

Our building programme has not been so heavy this year, although it is very noticeable. The buildings that have been erected are deteriorating to a greater extent than formerly. We have completed a new cow barn, which is of advantage in wintering our cattle. Extensive alterations have been made at the sawmill, entailing the building of a new power house, also bricking in of boiler, which was removed from our present main power house. This is of tremendous advantage, as we are now able to burn up all refuse in the way of sawdust, shavings, etc., which are made at the mill. We have also started the new power line from the Wanapetei Power Plant, at MacVittie, down to our main camp. When this is finished, and alterations which are contemplated are made in the power house, it should mean a considerable saving of fuel.

I wish to take this opportunity of expressing my appreciation of your kind help and consideration in the work of this institution. I also wish to express my thanks to all officers, employees, and ministers of the Gospel for the kind attention which they have given to everyone in this institution.

N. C. Oliver,
Superintendent.

INDUSTRIAL FARM, FORT WILLIAM

January 26, 1925.

We have had in 1924 the largest average population since the year 1915. The increase in population in 1924 over preceding years is to some extent due to the activity of the railway police in apprehending men stealing rides on trains to and from the prairie provinces.

In the past year we have practically completed our new building. This structure, which is a combination dormitory and administration building, furnishes accommodation for 120 inmates, and is of modern and sanitary construction. All of the rough work, and a considerable part of the mechanics' work on this building has been performed by institution labour.

The health of our population in the last year has been exceptional. We have had no cases of contagious or infectious diseases and a minimum of sickness of any kind.

In view of the large percentage of our population that have been employed on construction for the past fifteen months, we have not been able to do very much land clearing. However, with our construction programme completed, we will get on with this work this year.

Through the co-operation of the Department, we have established at the farm a pure-bred herd of Holstein Friesian cattle and improved Yorkshire swine, as well as a flock of pure-bred Oxford sheep. Our surplus breeding stock, chiefly males, is sold to the farmers of the district to furnish foundation breeding stock. This is a service that is much appreciated by the local farmers and breeders, and will eventually be a considerable source of institutional revenue.

During the summer, in co-operation with the local representatives of the Ontario Department of Agriculture, we held an Educational Field Day at the farm. Approximately 173 local farmers attended and a profitable afternoon was spent looking over the stock, experimental plots, garden and field crops.

I wish to take this opportunity of expressing my appreciation of the good-will and co-operation of yourself and other officers of the Department, as well as the staff of this institution in the administration of the work here.

H. M. McELROY,
Superintendent.

MERCER REFORMATORY

Toronto, January 21, 1925.

I have the honour to submit the annual report for the Andrew Mercer Reformatory for the year ending October 31st, 1924.

Our statistics show that thirty-five have been released on parole, two released on extra-mural permit, and five released on ticket-of-leave. These are given supervision by the parole officer. There were, however, discharged on expiration of sentence 100—these were suitably outfitted and given the gratuity earned during their term, but were given no supervision.

Since 1901 the introduction of every report of this institution submitted by me has stressed the following, and this introduction voices the same appeal:

1. SENTENCE.—The futility—the iniquity of short sentences. The desirability of the indeterminate sentence with release on parole. After care of all inmates released from the institution.

2. CLASSIFICATION.—Young first offenders separated from all others. That until a cottage system has been obtained, no keepers of houses of ill-fame be transferred to the Reformatory.

3. LOCATION.—Removal from present undesirable and inadequate quarters to site of sufficient acreage to secure our inmates from outside interference, and to enable us to give them a greater degree of freedom—the land need not necessarily be cleared land. There should be sufficient for cultivating vegetables and fruit, maintaining a dairy, raising poultry, etc.

Referring to the statistics one may read that of 168 sentenced during the year, eighty-nine received different varieties of the indeterminate sentence. This will probably mean the discharge of the eighty-nine paroled with supervision for the unexpired portion of the sentence, but the seventy-nine given definite sentences show the persistence of the short sentence in spite of legislation favouring the indeterminate. Analyzing these short sentences we find: Five are for three months, thirty-three are for six months, seventeen vary from six to twelve months.

If these fifty-five inmates were paroled they would scarcely be long enough under the supervision of the parole officer to obtain the full benefit of the system.

Those given definite sentences over twelve months and up to two years number twenty-four. Many of these would appear to have been given the maximum by the magistrate on account of their obviously deficient mentality, and so to obtain free custodial care. Those for whom there seems any possibility of success out in the world will be paroled, the remaining ones will be discharged without any supervision at the expiration of sentence.

These statistics show that we fall very far short in after-care of the *discharged* prisoner—committing judges and magistrates do not seem to recognize this consequence of the short sentence. They are not yet wholly converted to the creed of the indeterminate sentence and release on parole under supervision.

Classification of Inmates.—While I recognize the fact that this institution is a reformatory, yet it may be questioned whether that feature can be maintained when we must admit keepers of houses and take the chances of having them contaminate the morals of those girls who are younger and not so depraved. Keepers of houses should be kept in a class by themselves. We should have complete provision for separation of this class from all others, and give us an opportunity for dealing with the spiritual side of our inmates.

The last item is our location—publicly admitted by all responsible for the existence of the institution, Government and people, inspectors and officers, as most unsuitable and undesirable, yet we are still in our smoke-begrimed, exposed, noisy location.

It has been demonstrated on our limited acres that our inmates can work successfully in the raising of vegetables and flowers, the clipping of lawns, and the care of walks. Experience teaches the interest and the skill possessed by the type of girl we receive in caring for and tending live growing things. Wisdom in the selection of the place means success; many problems may be avoided by taking into careful consideration the character and former environment of those whom we wish to benefit by such change. Advice should be sought from the experience gained by those already engaged in this problem of a farm exclusively for women.

Attention is urged to the fact that for some years the Reformatory population has been steadily increasing in the number of young girls received, while the number of women over thirty is steadily decreasing.

Emma O'Sullivan,
Superintendent.

REPORT OF SALVATION ARMY WORK

The various fields of work covered by the Army are as follows: Toronto Jail, the Industrial Farm, Langstaff, and at Concord; the Ontario Brick & Clay Plant, Mimico; the Mercer Reformatory, Toronto; the Ontario Reformatory, Guelph; and the Industrial Farm at Burwash, besides almost every county and district jail in the Province, including the Dominion Penitentiary. It has been our purpose to enter these places of confinement and relieve the dull, monotonous routine prison life by special social entertainments and Salvation Army services. We have a great many illustrations and almost as many letters coming from officers of these institutions and from the prisoners direct, certifying to the social, moral and spiritual value of our services, and this after all is the highest form of reward.

TABLE

Showing the number of prisoners in custody at 30th September, 1923, the the number in custody

	In custody at 30th Sept., 1923.	Committed during year.	Total number in custody.	Discharged on expiration of sentence.	Discharged by ticket-of-leave.	Discharged by Parole Board.	Discharged by payment of fines.
Ontario Reformatory—Guelph	509	748	1,257	389	17	166	11
Ontario Reformatory—Clay Plant, Mimico	95	224	319	133	10	36	9
Industrial Farm, Burwash	268	991	1,259	662	17	131	14
Industrial Farm—Fort William	67	373	440	301	7	6	39
Toronto Municipal Farm—Langstaff (males)	124	1,726	1,850	1,423	4	6	158
Toronto Municipal Farm—Langstaff (females)	61	98	159	89	1	7	21
Mercer Reformatory—Toronto	142	168	310	100	5	35	1
Totals	1,266	4,328	5,594	3,097	61	387	253

No. 1

number received during the year, the number discharged, died, etc., and at 30th September, 1924.

Discharged by remission of sentence.	Discharged by Order-in-Council.	Discharged by Minister of Justice.	Conditional discharges.	Other reasons.	Escaped.	Returned to gaols.	Transferred to penitentiary.	Transferred to hospitals for insane.	Transferred to provincial institutions.	Released on Writ of Habeas Corpus.	Died while in custody.	Remaining in custody at 30th September, 1924.
9	1	.....	79	17	7	11	9	.....	31	.....	1	509
5	....	.....	18	1	5	6	.....	.....	.....	.....	1	95
.....	7	.....	.....	33	8	.....	4	7	.....	.....	1	375
.....	....	.....	.....	1	8	18	2	.....	.....	.....	2	56
.....	16	12	.....	9	4	11	.....	.....	3	.....	3	201
.....	2	.....	.....	.....	.....	1	.....	.....	5	.....	.....	33
.....	....	.....	.....	15	1	.....	.....	.....	5	.....	1	147
14	26	12	97	76	33	47	15	7	44	.....	9	1,416

TABLE No. 2.

Showing Social Conditions.

Married	1,582
Single	2,746
	4,328

TABLE No. 3.

Showing the Educational Status.

Read and write	3,885
Neither read nor write	443
	4,328

TABLE No. 4.

Showing the Habits of Prisoners.

Temperate	1,729
Intemperate	2,599
	4,328

TABLE No. 5.

Showing the Religions of Prisoners.

Anglicans	872
Methodists	456
Presbyterians	728
Roman Catholics	1,716
Other religions	556
	4,328

TABLE No. 6.

Showing the Length of the Sentences.

One month	1,777
Two months	249
Three months	489
Four months	81
Five months	35
Six months	406
Eight months	21
Nine months	31
Ten months	4
One year	174
Fifteen months	30
Two years	92
Indefinite sentences	939
	4,328

TABLE No. 7.

Showing the Nationalities of the Prisoners.

Canadians	2,533
English	428
Irish	238
Scotch	234
United States	191
Other nationalities	704
	4,328

TABLE No. 8.

Showing the Crimes for which Prisoners were Committed.

Crimes against the person:		
Assault	84	
Cutting, wounding, stabbing, shooting	16	
		100
Crimes against property:		
Arson and incendiarism	2	
Burglary, housebreaking and larceny	769	
Forgery	21	
Fraud and false pretences	191	
Horsestealing	...	
Receiving stolen goods	83	
Trespass	170	
Miscellaneous	8	
		1,244
Crimes against public morals and decency:		
Bigamy	16	
Inmates of houses of ill-fame	15	
Keeping houses of ill-fame	54	
Perjury	6	
Seduction	16	
Indecent assault	93	
Miscellaneous	100	
		300
Offences against public order and peace:		
Escaping and obstructing constables	16	
Carrying unlawful weapons	11	
Drunk and disorderly	1,417	
Deserting and absenting from His Majesty's service	...	
Breaches liquor law	531	
Vagrancy	446	
Other offences	263	
		2,684
		4,328

TABLE No. 9.

Showing the Occupations of Prisoners when Committed.

Agricultural	360
Commercial	704
Domestic	366
Labourers	1,527
Mechanics	1,289
Professional	54
No occupation	28
	4,328

REPORT OF THE ONTARIO BOARD OF PAROLE FOR THE YEAR ENDING OCTOBER 31, 1924.

TABLE OF STATISTICS

	Men	Women
Cases interviewed and investigated	1,167	231
Paroled	355	38
Parole failures (sent back, re-arrested, or escaped)	60	8
Recommended for Ticket-of-Leave	44	4
Recommended for Extra-mural Permit	226	2
Aggregate days of sentence (men) spent outside institutions on parole	41,466	
Maintenance thus saved the Province over	$50,000 00	
Wages earned on parole over	80,000 00	
Total cost of parole operations	18,000 00	

It will be noted that though the work has grown considerably this has not been at the sacrifice of efficiency, the percentage of success being slightly above that of last year. One thousand three hundred and ninety-eight cases were dealt with this year and 987 last year; an increase of 411. Last year 270 were paroled; this year 393. Last year we had an 80 per cent. success; this year 83 per cent. of those paroled faithfully kept all the conditions of parole. This year the experiment of placing certain offenders outside on Extra-mural Permit, with parole conditioned upon behaviour while on permit, was further extended; forty-two being so dealt with. There was but one failure among these. Of the sixty failures on parole thirty were first offenders. Had it not been for the adverse economic condition of the country, we would have had even fewer failures, and a score of inmates would have been paroled whom lack of employment compelled us to retain in the institution, for no inmate is paroled by us until employment is guaranteed. The number of married men paroled was eighty-eight. Single men paroled, 267. The number of married men who failed was fifteen. Single men who failed, forty-five.

The favourable attitude taken toward our work by the public of this province has continued and further improved this year. The legislature of all parties, judges and magistrates, and custodial and departmental officers, including the Provincial and Dominion police have from the beginning intelligently grasped our aims and given their hearty co-operation. With the exception of an occasional item based on misapprehension or lack of all the facts the newspapers have been our valuable allies and during the year not only have well-written special articles appeared in a number of papers but reporters in reporting different cases have for the most part grasped our aims and practice in a rather remarkable and gratifying way. Since our operations depend upon public opinion this is of very great importance.

Canadian, Rotary, Kiwanis and other clubs throughout the Province have invited members of the Board or our officers to speak and have given close attention and hearty approval to the parole work. The municipal police have, with but few negligible exceptions, given excellent and much appreciated assistance to our officers and the opposition encountered in this direction by the late Hon. W. J. Hanna, when he put the parole policy into operation, has now practically disappeared.

As heretofore, the cases of those who have failed us have received very critical examination by our officers and by us with a view to the decrease of the percentage of these in the future. During the year, the policy of having photographs and fingerprints of paroled persons on record in the office was begun. Furthermore a number of persons on parole who deliberately violated the conditions laid down by the Minister of Justice have been prosecuted for being unlawfully at large and have been returned to institutions with added sentences. A number whose violation of parole was not so serious have been merely returned into the institutions for the balance of their terms.

The question of custody is a most important and difficult one. When a person has been convicted by the court and sentenced to lose his liberty, one of the most important points to be considered is that of adequate and effective custody. To maintain this has always been a serious problem, and even when convicted persons are placed inside an institution under the care of armed guards they occasionally escape, but while they are inside an institution there is little difficulty as to supervision and control. When, even in accordance with justice and in the interest of themselves and the public, they are placed outside the question becomes far more difficult.

Under the Extra-mural Permit System of Ontario this difficulty is somewhat overcome by the strict conditions which are laid down by the law and the regulations, but since parole by the Ontario Board of Parole only takes place *after the definite sentence ordered by the court has been completed*, and since the indeterminate sentence has been added by the court for the purpose of permitting the placing of the prisoner outside, under supervision, toward his re-establishment, it has been felt (and the very term parole emphasizes this) that he should be allowed a reasonable degree of liberty and that his honour should be appealed to so far as possible. When this, and the material we are dealing with, are taken into account our percentage of failure is not great. It is regrettable that any persons given the privilege of parole should fail us, but the material that comes into our hands is often not very promising; and sometimes it is considered advisable to give even unpromising inmates a chance for re-establishment outside, as their retention in an institution for the balance of their term would mean that they would be deprived on their release of the very thing which they most need, namely friendly though strict supervision outside toward possible re-establishment. But in keeping these persons under observation outside it is difficult to know how far it is advisable to go. It would be inadvisable and impracticable to have an official standing guard over each paroled person at all times. It is proper to let paroled persons know that they are trusted and that not only their self interest but their manhood is appealed to. The question is, to what extent is it in the public interest to trust them? It would seem that this can only be settled for each individual as the case demands. Our officers report that the great majority of our paroled men play the game so fairly that no other supervision has been found necessary than the monthly report and correspondence with the office; with an occasional call from one of the officers. But a number of persons on parole lack an adequate sense of responsibility. They are often rolling stones and care-free, with here and there a touch of potential rascality in them, and while it may be undoubtedly wiser to have them outside being re-established on parole than to retain them in an institution from which they would be discharged at the end of their sentence, possibly workless and sometimes, therefore, reckless, they are found extremely difficult to supervise without a great deal of personal attention on the part of our officers. It would seem impossible reasonably to expect our present staff to do more

than it is doing in this direction, and on looking over the failures for the past year, it is by no means certain that many of these could have been prevented by any further supervision. These were sudden and could not have been foreseen. Nevertheless, especially in view of the great increase of our operations, we believe that more effective work could be done generally if our staff were increased by the appointment of another assistant parole officer at an early date. If this were done we would suggest that he reside in Guelph. He could thus be in close touch with the inmates and officials of the Reformatory there, and would furthermore be in a centre from which he could supervise with less expense and more efficiency than now, paroled persons in the western part of the Province.

This year has seen a further increase of the use by judges and magistrates of Section 44 of the Prisons and Reformatories Act, R.S.C. 148, which authorizes indeterminate sentences in Ontario up to two years less one day in addition to the definite term of three months or more. The large majority of Ontario offenders need a fairly long term of custody to be used for supervision, control and friendly guidance after a long or short institutional term has been served by them. Experience has show that in very many cases the short institutional experience with the longest possible period outside under supervision has proven more effective than the long period inside an institution, though, of course, sometimes the latter seems to be necessary for discipline, quarantine, and the protection of the public. Arguments in favour of the indeterminate sentence have been given in previous reports. There is rarely injustice in a long reformatory sentence with the indeterminate sentence included. If the facts justify it, the inmate will be placed outside by us at the earliest possible legal ime. The subsequent supervision will be unjust to no one, and if he is worthy, it will assist and in no improper way handicap him. If, however, a sentence is by subsequent events shown to have been too short, we are powerless either to assist the prisoner or to protect the public. The case of "M" may be cited as an example of the latter.

He was convicted of false pretences and sentenced for a short definite term. The magistrate did not know him. We did. This was the fourth time he had been convicted for exactly the same offence. On this point he was a menace to the public and really needed a long period of quarantine. Had the magistrate taken the precaution of adding a long indeterminate sentence to the definite term which he gave to this stranger, we could have protected the public for this period at least and possibly have done something for the inmate himself. As it is, he is now a free man and will doubtless soon repeat his favourite offence in another part of the Province. [Later. He has again been convicted of the same kind of offence.]

We could give many examples of the efficacy and wisdom of the long indeterminate sentence given by courts to strangers or to persons whom the court knew needed longer supervision. One of these is that of a person who had had three previous convictions for which he had served short definite sentences. On his fourth conviction the court gave him a fairly long indeterminate sentence. Believing that, while institutional treatment had apparently failed with him the Parole System as provided by the sentence of the court might succeed, he was placed outside by us on parole (though with some hesitation) and completed his term with very creditable success, and we believe has become entirely re-established. If he again falls and comes back on our hands at any future period, even with an indeterminate sentence given, it is extremely unlikely that this will be made use of for parole purposes. We rarely

find parole advisable a second time. The inmates are given to understand that when paroled they are being given one chance and one only.

So far as possible we endeavour to find the line of action which is in the interest both of the prisoner and of the public. As citizens as well as servants of the public appointed by the Crown, we realize the great responsibility which is laid upon us in placing persons outside an institution who have, by infraction of reasonable law, shown their defiance, or at least neglect, of the proper and just rights of their fellow citizens. Contrary to the idea of some, we are not governed in any way by sentimentality any more than we are by vindictiveness. We endeavour to use common sense and in every case endeavour to place ourselves at the point of view of those for whom we act, namely the people of this Province. When we parole a person, it is always with the belief that ultimately we are acting in the best interests of the Province, morally and financially, as well as that of the prisoner and his family. When we retain him in an institution we do so with the same motives and beliefs. We are, of course, adversely advertised by those who have failed on parole; sometimes, indeed, by the reconviction of persons alleged to have been paroled by us, but whom we did not deal with at all.

Our successes are necessarily confidential and are rarely, if ever, brought before the public. Some examples of these, without names, were given in our report last. To give others now, would be practically a repetition.

ALFRED E. LAVELL,
Secretary and Chief Officer.

ANNUAL REPORT OF THE COMMISSIONER FOR THE EXTRA-MURAL EMPLOYMENT OF SENTENCED PERSONS FOR THE YEAR ENDING OCTOBER 31, 1924

TABLE OF STATISTICS

	Men	Women	Total for 4 years
Permits granted	319	7	967
Committed crime and resentenced	9	...	14
Broke O.T.A.	1	...	4
Escaped	10	1	26
Recaptured and resentenced (to date)	4	...	11

Aggregate days served on permit this year	25,140
Saving in institution maintenance, therefore over	$30,000 00
Wages earned on permit over	55,000 00
Full cost of the permit system per year (excluding Printing and Postage)	800 00

The above table would seem to call for little comment. Any that might be given would for the most part be a repetition of statements made in previous annual reports. The report to be given at the end of next year, which will complete the five years' experiment which was to be made by me, will naturally recapitulate much that has been given before, modified by the results of experience. There was no especially unique or striking feature of this past year's operations which could not better be dealt with in the larger report of next year than at this time.

The confidence, approval, and co-operation of all Dominion and Provincial officials and of all others, with here and there a negligible exception, has continued with gratifying results. In fact one difficulty has been to get any constructive criticism, although occasionally a suggestion is offered which has led to improvement.

It will be noticed that the number of failures this year has continued to be very small—about 5½ per cent. In all human concerns, I suppose, one would be too optimistic to expect 100 per cent. success, though that should be our aim. The material from which the cases must be necessarily selected is of such a nature, however, as might make a much larger percentage of failure excusable. All the failures were either married men the condition of whose dependants was extremely hard, or young irresponsible fellows who there were good grounds for believing could be re-established under strict regulations outside. None of these were considered worthy of release on parole. I have again carefully gone through the files of those who failed us. I believe that in none of them could failure have been foreseen. The inmate's own make-up, and economic and social conditions were against us. Nevertheless, the permit system must stand or fall on its ability in getting a fairly large percentage of success even under the handicaps which are necessarily part of the problem and unless a clear success of at least 75 per cent. were gained each year, it could hardly be looked upon as a satisfactory custodial scheme no matter what benefits it might bring to the public or to the prisoner or his family.

When an offender is by a court deprived of his liberty and placed in custody for a given time, it is quite injurious to law and order to have many of them escape from custody. Any system for the assisting of innocent dependants and the re-establishment of offenders, therefore, must, to be satisfactory, show a reasonably good custodial success. Custodial perfection is impossible even with shackles and walls, but if in the future this system, with all its undoubted advantages, shows too great failure in this regard it will have to be amended or discarded. However, I believe that with continued caution and vigilance this will not be found necessary. If it can succeed, as it has, for four years with an average failure of less than 5 per cent., it should be possible fairly well to maintain this good showing throughout the future.

Alfred E. Lavell,
Commissioner.

THIRTY-FIRST REPORT

OF

SUPERINTENDENT

OF

NEGLECTED AND DEPENDENT CHILDREN OF ONTARIO

FOR THE YEAR

1924

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

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1925

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TORONTO, February 24th, 1925.

TO HIS HONOUR HENRY COCKSHUTT,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Thirty-first Annual Report under The Children's Protection Act of Ontario, and the first Annual Report under The Adoption Act, 1921, and The Children of Unmarried Parents' Act, 1921.

Respectfully submitted.

L. GOLDIE,
Provincial Secretary.

TORONTO, February 23rd, 1925.

HONOURABLE LINCOLN GOLDIE,
Provincial Secretary,
Parliament Buildings, Toronto.

SIR,—

I have the honour to transmit herewith the Thirty-first Annual Report under The Children's Protection Act of Ontario, and the second Annual Report under The Adoption Act, 1921, and The Children of Unmarried Parents' Act, 1921.

I have the honour to be, Sir,

Your obedient servant,

J. J. KELSO,
Superintendent and Provincial Officer.

THIRTY-FIRST ANNUAL REPORT

NEGLECTED AND DEPENDENT CHILDREN OF ONTARIO

THE work of caring for neglected and dependent children of the Province during the year 1924 has shown much progress. There has been steady growth both in the interest and support of the community and in advanced standards of efficiency. More children have been materially assisted than ever before, without undue disturbance of the family relationship. Hundreds of our best citizens have given freely of their time and means in the direction of local organization, and this has always been one of the highly commendable features of the work. All who have been in any way associated with the movement have realized that enthusiasm for the children's cause is vital, that indifference retards progress, and that energy and sound sense in administration are bound to produce excellent results.

One outstanding feature of the work to-day is the number of inspectors or local superintendents who are devoting their full time to the work, one in each city and county, with recent appointments covering the widely scattered territories of northern and northwestern Ontario.

These sixty officials literally "go about doing good" all the time with highly satisfactory results to the unprotected child, and with immense advantage to the Province through the public sentiment created and maintained, backed up as it is by the Society composed of leading citizens meeting at regular monthly intervals.

In the general work of Child Welfare one cannot fail to notice the increased interest which is manifesting itself throughout the Province, especially amongst the men. Social clubs vie with each other in extensive social activities and in many places are paying all expenses in the treatment of crippled and otherwise ailing children and the holding of clinics in an endeavour to ascertain the number of subnormal cases in the Province. The latter is one of the most serious problems that has to be dealt with, necessitating in many instances the retention of children in the Shelters for an indefinite period. Although the Shelter is not the proper place for them it is quite obvious that it is better to keep these children under the control of the Society than to permit them to roam at large and become a menace to the State.

Inspection

In addition to the general work of investigation, interviews, correspondence and other details, regular visiting of children in foster homes has been maintained by local Superintendents with the result that wards are receiving the best of care. In addition to keeping foster parents up to the mark, and encouraging them in praiseworthy service, the close inspection made has resulted in some instances in children being removed from homes which were not considered altogether suitable or where there was lack of congeniality. These wards have been transferred to other homes without much difficulty. The confidence of the child in the inspector materially assists him in his work, and it is most desirable that there should be close and friendly intimacy between the Society and its wards. Where this exists the child would know at once to whom it can turn for advice or assistance.

The personnel of the district workers has but slightly changed during the year—one resignation and three new appointments. It is a pleasure to state that in their general management and direction of the local work these officers have as a rule not only shown good judgment, but have given evidence of devotion to the children's cause and a genuine desire to advance not only the best interests of the children but of the Province generally. Most gratifying are the reports sent in from month to month and the daily correspondence has been a real pleasure.

One of our Children's Aid inspectors in commenting on his work, said that calling on the foster parents was stimulating and inspiring, as he was usually received with grateful appreciation and over-abounding hospitality. In one case, when enquiring about a child, the foster mother said, "When I applied for a little girl, I never expected to get one so beautiful, so good, so gentle and kind as my little Grace." Of another home he writes, "I wish you could just see how much this child is beloved by both foster parents. They have surrounded him with every possible advantage and the moral and intellectual training will be excellent. Happy is the child whose lot is cast with such people and in such a home." A pleasing feature, also, is that the homes are just as much benefited and blessed as the child, for the presence of young life gives people something to think about. As a joy-giving agency the Children's Aid movement would be hard to beat viewing it from the home-finding side.

Another inspector says in his report that he always feels thankful that his lot was cast among neglected and dependent children as good results are to be found on every hand. The splendid lives of many of the boys and girls who have been restored by the care and help rendered them amply proves the value of the society.

Finances

Much progress has been made in respect to finances. Increasing knowledge of the objects sought and organized effort has resulted in a large amount of money being raised to carry on the work of the various societies. Women's

Institutes, municipal councils and private citizens have contributed generously toward the maintenance of the shelters, all realizing that prevention is better than cure. Several of the societies have substantial endowment accounts. Older children are encouraged to save part of their earnings, and it is worthy of note that the societies have trust accounts for children aggregating close to ninety thousand dollars.

Legal Adoption

Since the Act of 1921 came into force, many persons have legally adopted their foster children. The unfortunate position into which the child has been thrust through death or negligence of the parents, has been counteracted by the measure of happiness to the child through this Act, as many persons of wealth and beautiful homes have become so attached to the boy or girl that they become fearful of the parents' demand for a return of their protege and gladly avail themselves of this law. An application was recently made by a wealthy lady who was living in constant fear of losing her adopted child. This child is now legally adopted and will inherit considerable wealth in addition to receiving an education of a permanent and uplifting character.

This Act has many times over demonstrated its value and usefulness, and under its benign provisions over two thousand children have been satisfactorily provided for.

Unmarried Parents Act of 1921

The effectiveness of this Act has been proven through numbers of cases that have been investigated throughout the Province. Notwithstanding the added burdens, the Inspectors are taking the keenest interest in this new work, the protection of the child born out of wedlock being their first thought; and secondly, the girl who has erred. The number of cases investigated, about twelve hundred during the past year, does not account for the total number of cases in the Province owing to the secrecy sought by the parties concerned.

To cover the entire field of illegitimacy it will be necessary for Registrars and Superintendents of Hospitals and Maternity Homes to forward promptly a report of each birth to the Provincial Officer, but the large staff required and consequent expense has delayed the complete development of this line of social activity.

It will be noted that under this legislation the cost of administration has been transferred from private individuals and the municipality to the Province. Formerly the problem of illegitimacy was left to the city police departments, relief boards, the legal profession and the voluntary efforts of charitable organizations. There was no methodical enforcement of the father's financial responsibility, and when special cases were followed up and funds secured, the amount was either absorbed in "expenses" or partly given to the mother, the maintenance of the infant usually devolving upon the municipality or private charity. The Act of 1921 clearly specifies that the Provincial Officer appointed

to administer the Act is reponsible throughout and is alone authorized to receive and disburse money collected. Under the old system, large sums were collected from putative fathers under threats of exposure and no guarantee given that the child would receive adequate care and maintenance. All that is now changed, and while this will be recognized at once as the only correct procedure, the transfer of all this work to the Children's Aid Branch naturally leads to heavy expense of administration for the Central Department.

Juvenile Delinquents

Apart from the larger cities, the work of looking after youthful delinquents devolves upon the local superintendent of the Children's Aid Society. He is looked upon as the natural arbiter or executive, and endeavours under the direction of the judge to work out a satisfactory solution. It should always be borne in mind that parents and guardians as well as the offender are on trial, the youth for committing the act, and the parents for negligence in not looking after the welfare of their children. This cannot be too strongly emphasized.

The Juvenile Court Judges, chosen because of their interest in Child Welfare, are realizing the value of the Children's Aid Society, the result being careful and patient readjustment and a constantly lessening number sent to industrial schools. In many instances where the home has proven unsatisfactory children have been made wards and placed in selected foster homes with good results.

An illustration: One boy was arrested for theft, placed in the Shelter, tried by the magistrate (who was averse to sending the boy to the industrial school), and given over to the Children's Aid Society. The lad was placed on a farm with an estimable family who are much interested in him. After two years had lapsed the report is that the value of the goods stolen has been paid and the boy has a sum of money to his credit in the bank. A wise judge and a sympathethic society have been the means of saving a boy from prison, and giving him an opportunity of making good, which he is taking advantage of.

Juvenile Courts in Ontario

Judges—H. S. Mott, Toronto.
S. Atkinson, Timiskaming.
Dr. Michael Steele, Perth County, Stratford and St. Marys.
J. J. A. Weir, Kitchener and Waterloo County.
His Honour A. D. Hardy, Brantford and Brant County.
J. F. McKinley, Ottawa.
J. R. Blake, Galt.
A. D. Creasor, Owen Sound and Grey County.
Rev. G. Quinton Warner, London and Middlesex County.
A. D. Bowlby, Windsor, Walkerville and Ford.
C. A. Reid, Huron County.
G. F. Jelfs, Hamilton.
His Honour Judge Valin, District of Nipissing.
His Honour John S. Campbell, St. Catharines and Lincoln County.
Col. J. G. Massie, Dunnville and Haldimand County.
C. H. Cline, Stormont, Dundas and Glengarry.

One difficulty in securing Juvenile Courts is that many of our Magistrates are practically doing the work without waiting for this special law.

Past and Future

Reviewing the achievements of the past thirty years in Child Welfare legislation, it is interesting to recall that the many reforms now commonly accepted were advocated and their coming predicted in the earlier reports presented to the Legislature, beginning with the year 1893.

The Children's Protection Act itself outlined two great principles: The prevention of all cruelty to and neglect of childhood, and family home life for dependent children in preference to the institution. These principles have been steadily advancing into realities in our own and all civilized countries, notwithstanding the handicap that superficial sentiment naturally favours the orphanage. The next reform to be generally accepted was the Juvenile Court with the ideal of a sympathetic judge to befriend and restore the youthful delinquent and to focus attention on the underlying causes of delinquency. The practical features of the Juvenile Court were put into operation in Toronto in 1894, several years before the movement was taken up in other cities. In the early days of this work also it was recognized as essential to progress in conservation of the home that there should be such laws as the Workmen's Compensation Act and the Mothers' Allowance Act, and they have been spreading comfort and happiness over thousands of homes. Medical examination of all children and free dental clinics for needy children followed, and is now being extensively developed through public health departments. A stricter family desertion law was found to be another essential in the prevention of broken homes, with their burden of suffering and public expense. There is much still to be done by way of enforcement. Next came the more recent laws for the better protection of children born out of wedlock, and a legal adoption law giving greater security to foster parents and an assured home to the dependent child.

There is little left to strive for in the way of new Child Welfare legislation. The Child Protection laws now on the Statute books, with workable improvements from time to time, should suffice for years to come, for progress has been so rapid we have much legislation on our Statute books that remains to be digested. A few years could be profitably spent in assimilating these laws, getting them understood by the people, developing the machinery for efficient administration, and co-ordinating all the many activities that have been called into existence through popular demand.

STATISTICS OF CHILDREN MADE WARDS OF THE CHILDREN'S AID SOCIETIES

The number of children made wards of the Children's Aid Societies by order of the Courts during 1924 was 773, of which number 620 were Protestant and 153 were Roman Catholic.

During the same period there were 750 children released from supervision, because of reaching majority, marriage or legal adoptions.

As there were 954 children made wards in 1923, it is satisfactory to note a decrease this year of 181 in the number of commitments.

It will be interesting to note that the total number of children received under the care of the societies and department from the inception of the work to December, 1924, was 24,771 with at least two hundred thousand other children indirectly aided, protected and in various ways surrounded with beneficial influences.

Supervision.

Apart from correspondence the number of children personally visited in their foster homes and reported upon during 1924 was 6,528. This involved the travelling of many thousand miles by our local superintendents and an expenditure on the part of the Province of about $12,000 for motor hire, etc., but the great importance of this visiting fully warrants the time and expense. As a rule, conditions were found satisfactory, but the mere expectation of a visit has a tonic effect in maintaining proper standards of care and treatment of children.

Wards of Roman Catholic Faith

The work among the Roman Catholic wards of our societies is under the supervision and advisement of Mr. William O'Connor. It is pleasing to note that by reason of the wisdom and discretion of officers of Children's Aid Societies in administering the law it receives the united approval of all forces for good. The work done by Children's Aid Societies in a community is essentially one that requires the support of all good citizens for its proper enforcement, and it is gratifying to realize that this support has been generously given.

Sex of children made wards during the year, 380 male, 393 female.

The ages of the children made wards was as follows:—

1 year or under	67	10 years	32
2 years	86	11 years	53
3 years	59	12 years	43
4 years	52	13 years	48
5 years	42	14 years	39
6 years	38	15 years	28
7 years	46	16 years	51
8 years	40	Birthday unknown	2
9 years	47		
Total	773		

How Dealt With.

Placed in foster home, 277; placed in shelter, 238; placed with parents on probation, 111; placed with relatives, 44; placed in infants' homes, 32; placed in institutions, 31; placed in detention homes, 7; placed in hospitals, 5; placed in Orillia, 1; placed in industrial schools, 9; boarding, 14; died, 4. Total, 773.

Chief Reason for Committal

Parental History

Mothers unmarried, 180; immorality and neglect, 162; desertion, 120; conditions of poverty, 79; imprisonment, 50; death, 73; separation, 32; feeble-mindedness, 19; cruelty, 7; parents incapable, 23; no parental control, 28.

Children transferred or committed to the Soldiers' Aid Commission during the year were 92.

Nationality of Parents

	Father	Mother	Both
American	9	16	1
Austrian	..	..	..
Canadian	80	125	282
Canadian (French)	14	8	24
English	29	65	45
Finlander	..	3	5
French	2	1	..
Galician	2	1	..
German	2	..	3
Greek	..	1	..
Indian	1	..	..
Irish	23	8	1
Italian	6	..	3
Jewish	2	..	..
Norwegian	1	6	..
Polish	3	..	12
Roumanian	..	2	1
Russian	..	..	3
Scotch	18	18	2
Swedish	3	..	..
Ukranian	..	1	7
Unknown	105	47	63

During the year 1924, there were 646 Protestant children released from supervision and 104 Roman Catholic children.

ACT RESPECTING THE ADOPTION OF CHILDREN

The value of legal adoption might be illustrated by a recital of many interesting and romantic stories of children who have been adopted under this Act. A wonderful depth of affection on the part of foster parents has been revealed and many children who would otherwise have been homeless and friendless have been safely and permanently sheltered and protected with enormous benefit to themselves, and to the great advantage of the state. One of our leading financiers called with his wife to arrange for the legal adoption of a little girl they had taken into their home some years ago. "No words can describe how much she meant to us," they both said, and their happiness and satisfaction when the documents were duly approved of was beautiful to behold. A district judge was one of the first to make application, and he spoke in the same appreciative way of the happiness this adoption had brought into the lives of himself and wife. It was the same story over and over again. Within the past few days, a retired business man called to make application for legal adoption. "Do you fully understand," he was asked, "that if this is granted the child becomes your legal heir?" "Exactly what we desire," was his prompt reply. The generous and unselfish spirit of foster parents has been manifested in every instance. Cynical people may say that adoption has been sought to avoid the surveillance of officials and secure unpaid service from the children, but there has been very rarely a suspicion of such a motive. In nearly every instance the best welfare of the child has been the main consideration, and no one need fear that children will suffer through the abuse of this law. Even the poorest of the applicants have made and are making remarkable sacrifices to worthily maintain and educate their children.

The prescribed forms under the Adoption Act may be secured from the Provincial Officer, J. J. Kelso, 110 University Ave., Toronto. All forms are signed in duplicate, one copy being for presentation in court and the other for the Provincial Officer's file, a complete record of each adoption being kept.

Each application is made to the Provincial Officer with the particulars of the circumstances, history of the child's parentage and full address of the applicants. Proper forms of consent are forwarded for signature and investigation made by the local representative of the department regarding each applicant and home.

If the Provincial Officer finds he is warranted in granting legal adoption, the certificate of approval is issued and forwarded with the necessary papers for presentation to the judge. Two copies of each order are returned to the Provincial Officer, one of which is for his file, the other being forwarded to the Registrar-General in due course.

Even where the child is twenty-one years of age the Orders are issued through the Provincial Officer and two copies returned to him when signed by the judge.

Legal Adoption Statistics

During 1924 there were 549 children legally adopted, the following being a broad classification respecting these children:—

Children's Aid Society wards, 256; Soldiers' Aid Commission wards, 18; other organizations' wards, 15; illegitimate children, 140; abandoned, 1; orphans, 13; one parent living, 47; both parents living, 43; parents divorced, 3; stepfather

adopts, 3; child adopted a second time, 3; over twenty-one years of age, 4; married woman adopted, 3. Total 549.

Aside from wards of the Children's Aid Society or children who are being dealt with under the Unmarried Parents' Act, the comparison shows an increase, there being 153 cases in 1924 against 135 cases for 1923.

549 completed.

104 cases have been closed, it being decided after due investigation that legal adoption was not warranted.

71 adoptions have been approved and papers sent out for presentation in court for which we await the signed orders by the judge. Of these, 42 are wards.

283 cases are current. Of these, 31 have been approved and papers are being prepared for court.

The total number of children legally adopted to the end of 1924 is 2,131.

Printed forms *re* application for adoption may be obtained from the Provincial Superintendent or local superintendents.

CHILDREN OF UNMARRIED PARENTS ACT

The Act for the Protection of Children of Unmarried Parents was passed by the Ontario Legislature and came into force on 1st July, 1921, the superintendent of the Children's Branch being appointed Provincial Officer and the local superintendents of the Children's Aid Societies local officers. Since that time, 3,141 cases have, as shown on Schedule "A" attached, been brought to the attention of the Provincial Officer. Of these, 1,205 were handled during the last fiscal year.

Investigations

(*a*) *Toronto Cases.*

Of the 1,205 cases referred to, 517 are from Toronto, though not all are permanent residents, the unmarried mothers coming from outside points to secure greater privacy. In addition to the general oversight, these Toronto cases are investigated by the Provincial Officer on reports from the mothers and their relatives or friends, the different social organizations, police officials and legal firms.

The filling out of the history form and declaration of paternity is the first step in the investigation, together with the question of corroborative evidence. For advice as to care during illness, the applicant is referred to one of the social agencies whose officials go into the matter with her in detail and help her to select the home best suited to her needs. In this connection the Neighbourhood Workers Association, the Social Service Department of the Toronto General Hospital, the Catholic Welfare Bureau and other social agencies have rendered valuable assistance.

The Social Service Exchange of Toronto has been found useful in determining the social agency to be consulted. A list of new cases is submitted to it each week for information as to what, if any, social agencies are already interested. By this method overlapping is prevented and consequent loss of time.

(*b*) *Cases Outside Toronto.*

In other cities, towns and rural districts throughout the Province the investigation is carried on by the local officer who interviews the young woman and forwards the history form and declaration of paternity to the Provincial Officer. If the putative father resides in the same district, the case up to the obtaining of the agreement or order is conducted by the local officer under direction of the Provincial Officer. The task of locating and interviewing the party accused is often a difficult one, but our representatives have in most cases done excellent work, and hold the respect and esteem of the whole community. Legal assistance for the actual handling of the cases in court is allowed, although after preliminary experience many of our officials attend to this themselves with great efficiency.

The Provincial and municipal police, through the kindness of the authorities, work with our local officers, and in isolated districts sometimes conduct the entire investigation.

(*c*) *Cases Outside Jurisdiction.*

Where the putative father goes to some other province in the Dominion, or to the United States, for the purpose of evading his obligation under the Act,

every endeavour is made to locate him. If successful, correspondence is entered into with the social agency in the province or country to which he has gone, for the purpose of getting him to voluntarily enter into an agreement with the Provincial Officer.

Occasionally an appointment is taken out before the judge in such cases, the papers being forwarded for service to one of the organizations above referred to. If personal service is effected, an affiliation order may be made regardless of whether or not the alleged father attends, and although collections cannot be forced under it while he remains outside of the Province, a summons may be issued should he return to Ontario. This action is frequently productive of settlement.

Due to the efforts of such social organizations we have had considerable success in this feature of the work and desire to express appreciation particularly to the Children's Aid Society of Winnipeg; The Bureau of Child Protection of Regina; The Women's Directory of Montreal; The Children's Aid Society of Buffalo; The Children's Aid Societies of Detroit, and The Western Pennsylvania Humane Society of Pittsburg. The Dominion Immigration Department has also proved a help in having men returned to Canada who have illegally entered the States.

Statistics

From the data given on the history form, valuable statistics relative to nationality, religion, employment, etc., are obtained. Records are kept that are already proving a source of useful information.

Agreements

Section 33 of the Act gives the putative father the right to voluntarily enter into an agreement with the Provincial Officer, when he admits paternity and makes an adequate offer to provide for the maintenance and education of the child. During the year, 202 such agreements have been made, the payments for hospital and medical care varying from twenty-six dollars to one hundred and seventy dollars and the weekly maintenance rate from two to seven dollars. The lump sums collected as an alternative are from five hundred dollars where corroborative evidence is weak, to two thousand dollars where paternity is admitted. Our endeavour is to secure a reasonable amount for the maintenance of the child, and only where there is little or no corroborative evidence or the putative father is practically without means or prospects is a small amount accepted. Each agreement secured under this section by the local officer is first submitted for approval to the Provincial Officer who sees that it conforms with the wording of the Act, that the amount is adequate having regard to the circumstances of the case, that the directions as to payment are clearly set out and that it is in proper legal form.

Private agreements are frequently made, and in such cases the Provincial Officer has no responsibility regarding collections. These agreements must, under Section 32 of the Act, be ratified by the Judge and one copy filed with the Provincial Officer. Many private agreements are made without the knowledge of the Provincial Officer, but there were seventy-three filed in this office during the year.

Affiliation Orders

As the decision to apply for an affiliation order rests almost entirely upon the corroboration the young woman has in support of her story, this phase of

the investigation is of necessity very thorough. Occasionally, however, action is taken where corroboration is weak but the truth of the mother's statement is apparent, in the hope that the necessary corroboration may be brought out in cross-examination, and there is always the possibility of a settlement before the case goes to court. Likewise, the alleged father is given the privilege of court action when he claims to be unjustly accused and is unwilling to enter into an agreement. Where the child is likely to become a public charge the case is frequently brought before the court for the purpose of finally disposing of it to the satisfaction of the judge who make the order for committal. Wherever possible, the application for an affiliation order is delayed until after the birth of the child, the exact date of birth being an important factor in the establishment of paternity.

During the year, 121 affiliation orders have been made in compliance with the terms of Section 18 of the Act, the majority covering hospital and medical expenses and the weekly maintenance payment, a few the weekly maintenance payment only, and others giving in addition the three months maintenance prior to birth, security for payments and the costs of the action. As in the case of the agreement, the affiliation order is approved by the Provincial Officer, who sees that the wording and directions as to payment conform with this Section of the Act.

Judicial and Legal Assistance

Outside of Toronto, applications for affiliation orders are made before the District and County Court Judges, to whom we are indebted for their interest in the Act and the valuable assistance given in its interpretation. The work of the Crown Attorneys throughout the Province, which has been done for a reasonable remuneration, has also been appreciated. Toronto cases are held before the Judge of the Juvenile Court, the Assistant Crown Attorney acting on behalf of the Provincial Officer.

Appeals

During the year we have had six appeals from Judges' orders, of which two were dismissed, in two others leave was granted for new trials and two are pending. The Attorney-General's Department represented the Provincial Officer on these appeals.

Central Collection Office

While the local officers assist materially in the negotiations leading to settlement, all payments under orders and agreements are made to the Provincial Officer, Toronto. This is an essential feature of the Act as it gives complete control over the collection and disbursement of money and minimizes the possibility of irregularity. Naturally, it involves a great deal of work in interviews, correspondence and bookkeeping. As shown on Schedule "B" the amount collected in cash from the time the Act came into force to 31st October, 1924, was the sum of $158,129.60, of which the collections during the last fiscal year amount to $73,258.76. Constant follow-up work is necessary to keep the man from falling in arrear in his payments, and this has been greatly increased owing to existing unemployment conditions. A sum equal to the above is accruing under the deferred payment plan.

Penalities for Non-Payment

Where continued default is made under the agreement, an affiliation order is applied for, and where payments under the order fall into arrear, the judge is requested to issue a summons under Section 29 of the Act, ordering the putative father to attend and show cause why he should not be committed to gaol for non-compliance with the Court order. If the man appears after being personally served, he is given an opportunity of stating his circumstances and frequently allowed more time, or with the mother's consent, the order may in the discretion of the judge be reduced to enable him to pay. If he does not appear, upon proof of personal service having been effected, an order of commitment is at once made by the judge. Six of such orders have been made during the year.

Child Placing

While, as before mentioned, young women from all over the Province come to Toronto and other large cities for attention, every effort is made to have the mother and child returned to their own county or district. In many instances, parents are willing to keep the child with the assistance given them under the Act, and this is desirable as it gives the child normal home surroundings. In others the local officers find a suitable boarding or foster home for it in the county where the mother resides. If the mother is unable to maintain the child herself and cannot get assistance from other sources, it is made a ward of the local Children's Aid Society and if possible placed in a foster home. In Toronto cases, social agencies co-operate in finding suitable boarding homes which are supervised by the Public Health Nurses, and mothers who desire to list their babies for adoption are referred to the Children's Aid Society.

A Few Advantages of the Act

It has always been considered difficult to definitely fix paternity of a child born out of wedlock, but the fact of having a law on the Statute books makes it easier to find and convince these men of their obligation to assume some part of the burden. Before the Act was passed one social agency reports to having dealt with ninety cases of unmarried mothers, and in only two instances was it possible to get any money from the alleged father. In another group of thirty-two cases investigated, only one man could be found who would acknowledge responsibility.

As the Act is still in its infancy, it is difficult to estimate the effect of this legislation on immorality. It is felt, however, that while there will always be those who will refuse to learn from the experience of others or even be guided by their own mistakes, many young men and women who have brought themselves within the provisions of the Act will in future endeavour to lead upright lives.

Another gratifying feature is that the child, around whom the entire activities of the Act centre, is receiving untold benefits as a result of the investigations conducted. Careful supervision by social workers and the Public Health Nurses impresses upon the young mother the care that must be given. In many instances she is devoted to the child and the assistance thus secured makes it possible for her to keep and maintain it.

SCHEDULE "A"

Children of Unmarried Parents Act

Comparative report showing number of cases dealt with from July, 1921 to 31st October, 1924.

1921		
July 1st, 1921, to October 31st, 1921	102	cases were dealt with.
1921-1922		
October 31st, 1921, to October 31st, 1922	672	" " " "
1922-1923		
October 31st, 1922, to October 31st, 1923	1,162	" " " "
1923-1924		
October 31st, 1923, to October 31st, 1924	1,205	" " " "
Total	3,141	

N.B.—The above statement indicates a yearly increase in the number of cases brought to attention, rather than any increase in immorality.

Statement showing number of cases dealt with during last fiscal year.

From October 31st, 1923, to October 31st, 1924.... 1,205 cases were dealt with.

Of these.....396 have become financial cases.
" .....646 have been closed.
" .....163 are pending.
Of the financial cases.....202 were settled by agreements.
" " " .....121 by Court orders.
" " " ..... 73 by private agreements.
Of the closed cases.....In 188 no action was desired.
" " " .....158 were dismissed for lack of corroborative evidence.
" " " .....In 254 the man disappeared.
" " " .....In 46 the couples married.

SCHEDULE "B"

Children of Unmarried Parents Act

Comparative statement showing receipts and disbursements from July, 1921 to October 31st, 1924.

	Receipts	*Disbursements*
1921		
July to October 31st, 1921	$691 00	$40 00
1921-1922		
October 31st, 1921, to October 31st, 1922	27,066 81	13,954 09
1922-1923		
October 31st, 1922, to October 31st, 1923	57,113 03	38,663 66
1923-1924		
October 31st, 1923, to October 31st, 1924	73,258 76	57,698 63
Total	$158,129 60	$110,356 38

Printed forms *re* procedure under the Unmarried Parents Act may be obtained from J. J. Kelso, Provincial Superintendent, or local superintendents.

CHILDREN'S AID SOCIETIES

A report of the varied and successful work of each affiliated society was prepared but it was decided that the cost of printing did not warrant publication of these reports. All that can be given here is a list of the officers and a summarized table of receipts and expenditures.

Barrie and Simcoe County

President, A. J. Serjeant; Treasurer, A. G. McLellan; Inspector, W. J. Justice; Auditors, W. R. Kind and Thomas Beecroft.

Belleville and Hastings County

President, Mrs. J. J. McFee; Recording Secretary, R. H. Ketcheson; Treasurer, H. F. Ketcheson, Local Superintendent; T. D. Ruston.

Brantford and Brant County

President, D. T. Williamson; Recording Secretary, Miss S. Brown; Superintendent, J. Leslie Axford; Treasurer, C. Cook.

Burks Falls and East Parry Sound

President, Dr. J. J. Wilson; 1st Vice-President, S. R. Alexander; 2nd Vice-President, Mrs. A. T. Hunter; Secretary, E. A. Warner; Treasurer, Fred. Metcalfe; Inspector, John Hartill.

Chatham and Kent County

President, S. M. Glenn; Vice-Presidents, Mrs. W. D. Sheldon and Mrs. P. S. Coates; Treasurer, T. E. Cottier; Superintendent, F. Appleyard.

Cochrane District

President, Chas. V. Gallagher, South Porcupine; Treasurer, D. Sutherland, Timmins; Superintendent, Oscar Robertson, Timmins.

Dunnville and Haldimand County

President, K. J. Shirton; Treasurer, Geo. P. Brown; Secretary and Inspector, Chas. R. Bilger.

Fort Frances and Rainy River District

President, W. J. Clark; Vice-President, Mrs. A. McTaggart; Secretary-Treasurer, Alex. MacKenzie.

Goderich and Huron County

President, James Mitchell; Superintendent, G. M. Elliott; Secretary, A. M. Robertson; Treasurer, R. G. Reynolds.

Guelph and Wellington County

President, R. Norman Wallace; Secretary, William Laidlaw; Treasurer, W. H. Beattie; Inspector, Rev. Amos Tovell.

Haliburton County

President, Dr. C. E. Frain; Honorary Treasurer, M. Morrison; Inspector, A. G. Schofield.

Hamilton

President, W. H. Lovering; Secretary, Mrs. W. G. Thompson; Treasurer, Mrs. C. A. Hunter; Inspector, Edward J. Burns.

Kenora

President, Canon Lofthouse; Treasurer, Mrs. J. T. Brett; Secretary, Mrs. G. S. Collins; Inspector, Mrs. G. S. Collins.

Kingston and Frontenac

President, Dr. E. C. D. McCallum; Treasurer, T. A. Kidd; Secretary, A. P. Lothrop; Inspector, Rev. Wm. Black.

Kitchener and South Waterloo

President, A. R. Goudie; Secretary, W. H. Woods; Treasurer, V. Cober; Inspector, Arthur Pullam.

Galt Children's Aid Branch

President, Mr. H. Fowler; Vice-Presidents, Mrs. J. Lash, Mrs. S. J. McLane; Secretary-Treasurer, Mrs. Cavers; Committee, Miss Gardner, Mrs. Horton, Mrs. Bennett.

The Waterloo County Branch

President, Mr. D. M. Panabaker; Vice-Presidents, Mr. S. J. McLane, Father Gehl, Preston; Secretary-Treasurer, Father Meyer, Hespeler.

Leeds and Grenville Counties

President, Mr. I. C. McClean; Secretary, Jas. T. Fitzpatrick; Treasurer, H. S. Dupuy; Local Inspector, Alex. Beattie.

Lennox and Addington

President, Alpine Woods; Recording Secretary, Mrs. F. L. Hooper; Treasurer Mrs. A. W. Grange; Agent, F. W. Barrett.

Lindsay and Victoria County

President, G. H. M. Baker; Treasurer, M. H. Sisson; Agent, Mrs. E. E. Sharpe.

London and Middlesex

President, A. E. Barbour; Treasurer, J. I. A. Hunt; Local Superintendent, W. E. Kelly.

Manitoulin Island

President, Robt. Robinson, Gore Bay; Treasurer, A. J. Wagg, Mindemoya; Local Superintendent, Miss Geraldine Batman, Sheguindah.

Muskoka District

Superintendent, Major W. D. Forrest, Huntsville.

Niagara Falls

President, M. C. Goodsir; Secretary, Miss M. E. Smith; Treasurer, N. Fielding; Local Superintendent, W. E. Jones.

North Bay and District of Nipissing

President, Wm. Anderson; Secretary, G. S. McGauhey; Treasurer, E. C. Rheume; Inspector, John Brown.

Orangeville and Dufferin County

President, Rev. J. W. McDonald; Secretary-Treasurer, W. Anderson; Local Superintendent, H. F. Tuck.

Oshawa and Ontario County

President, H. P. Schell; Secretary-Treasurer, H. Duncan; Superintendent, W. H. Elliott.

Ottawa and Carleton County

President, Col. D. T. Irwin; Treasurer, Col. P. B. Taylor; Local Superintendent, Chas. G. Pepper: Inspector, J. Reymond.

Owen Sound and Grey County

President, H. H. Burgess, Treasurer, J. G. Currie; Local Superintendent and Secretary, A. E. Trout.

Parry Sound West

President, Rev. Herbert Lee; Treasurer, J. N. Hurst; Secretary, J. L. Moore; Local Superintendent, Joseph Ryder.

Peel and Halton

President, J. M. Denyes; Treasurer, C. H. Stuart; Secretary, Mrs. T. J. Brown; Local Superintendent, W. H. Stewart.

Perth and Lanark County

President, J. S. L. McNeely; Inspector, Jas. J. Hands; Treasurer, T. Malcolm Hope.

Peterborough

President, B. F. Ackerman; Secretary, John Edgar; Treasurer, C. S. Cummer; Local Superintendent, Geo. W. Powell;

Picton and Prince Edward County

President, W. J. Carter; Secretary, Mrs. M. Davison; Treasurer, Mrs. C. A. Wright; Agent, L. A. Van Skiver.

Port Arthur

President, Dr. C. N. Laurie; Secretary-Treasurer, R. M. Young; Local Superintendent, Geo. Gibbon.

Port Hope, Cobourg, Northumberland and Durham

President, J. W. Bickle, Cobourg; Treasurer, Dr. E. A. Totten, Port Hope; Local Superintendent, Rev. James T. Daley, D.D.

Prescott and Russell Counties

President, E. J. Labrosse; Secretary, John Hartley; Treasurer, D. S. McInnes, Inspector, E. A. Johnson, L'Orignal.

Renfrew County

President, J. H. Reeves; Vice-Presidents, Reeves of various Municipalities; Treasurer, E. J. Stewart, Renfrew; Recording Secretary, Miss Sibray; Superintendent, Rev. Canon Quartermaine.

Sault Ste. Marie

President, James Bassingthwaighte; Secretary and Local Superintendent, J. P. Reed; Treasurer, W. H. Hyland.

St. Catharines and Lincoln County

President, W. H. Westwood; Secretary, Mrs. D. C. Hetherington; Treasurer and Local Superintendent, C. H. Claus.

St. Thomas and Elgin County

President, F. B. Holtby; Treasurer, D. W. Newcombe; Local Superintendent, Mrs. E. H. Caughell.

Sarnia and Lambton County

President, Chester H. Belton; Treasurer, J. E. Leckie; Secretary and Local Superintendent, John Wilkinson.

Simcoe and Norfolk County

President, Frank Reid; Secretary, M. H. House; Treasurer, R. T. Hoskin; Inspector, H. A. Carter.

Stormont, Dundas and Glengarry

President, W. A. Craig; Secretary, J. R. Simpson; Local Superintendent, T. W. Ault, Cornwall.

Stratford and Perth County

President, Sheriff Magwood; Treasurer, J. H. Smith; Secretary, Mrs. J. Bottomley; Local Superintendent, Hugh Ferguson.

Sudbury

President, Mrs. R. R. McKessock; Secretary, Mrs. Humphrey; Treasurer, R. O'Connor, Copper Cliff; Local Superintendent, Wm. Greenwood.

Temiskaming District

President, N. J. McAuley; Treasurer, Geo. T. Smith; Secretary and Local Superintendent, R. Le Heup.

Toronto

President, A. R. Auld; Secretary, Wm. Duncan; Treasurer, A. M. Campbell; Assistant Treasurer, Jas. E. Clark; Director, Robt. E. Mills.

St. Vincent De Paul Society, Toronto

President, J. F. Brown; Secretary, J. F. Boland; Treasurer, F. T. Walsh; Local Superintendent, M. P. Everett.

Walkerton and Bruce County

President, Wm. H. Shaw; Treasurer, L. C. Benton; Inspector and Secretary, Rev. R. Perdue.

Welland County

President, Mrs. (Dr.) J. L. Emmett; Secretary, J. H. Thompson, Thorold; Treasurer, W. H. Gainer; Local Superintendent, Rev. T. M. Mead.

Welland City

President, C. H. Rielly; Recording Secretary, Miss Asher; Treasurer, Mrs. L. B. Duff; Local Superintendent, J. R. Vaughan.

Wentworth County

President, J. T. Middleton; Treasurer, J. M. Campbell; Secretary, W. F. Moore, Dundas; Local Superintendent, James Clark.

Windsor, Walkerville and Essex County

President, Wm. Wollatt; Secretary-Treasurer, Jas. E. Wall; Local Superintendent, M. R. Winters, Windsor.

Woodstock and Oxford County

President, Rev. Dr. L. B. Gibson; Local Superintendent, L. C. Ecker.

York County

President, Hon Geo. S. Henry, Oriole; Secretary, R. W. Phillips, Toronto; Treasurer, W. D. Annis, Scarboro; Local Superintendent, H. D. Ramsden, 157 Adelaide St. East.

Province of Ontario

General Superintendent and Provincial Officer, J. J. Kelso, 110 University Avenue, Toronto. Telephone Adelaide 8241.

Financial Statement

Place	Receipts	Expenditures	Surplus	Deficit
	$ c.	$ c.	$ c.	$ c.
Barrie and Simcoe County	6,286 02	5,689 31	596 71	
Belleville and Hastings	6,768 56	6,495 76	272 80	
Brantford and Brant County	6,389 44	6,394 57		5 13
Burks Falls and Parry Sound (East)	400 20	324 45	75 75	
Chatham and Kent County	6,213 80	5,321 93	891 87	
Cochrane District	2,754 52	1,816 04	938 48	
Dunnville and Haldimand	5,983 52	5,615 35	368 17	
Fort William and Thunder Bay	7,811 84	7,148 09	663 75	
Goderich and Huron County	4,150 44	4,089 92	60 52	
Guelph and Wellington County	7,149 08	6,479 57	669 51	
Hamilton	12,455 67	12,520 90		65 23
Haliburton County				
Kenora				
Kingston and Frontenac	5,597 00	5,597 00		
Kitchener and Waterloo County	7,836 15	7,492 83	343 32	
Leeds and Grenville County	2,654 65	2,652 78	1 87	
Lennox and Addington	1,943 08	607 57	1,335 51	
Lindsay and Victoria County	6,023 13	5,551 51	471 62	
London and Middlesex	12,245 89	15,255 53		3,009 64
Manitoulin Island				
Muskoka District	1,657 08	38 10	1,618 98	
Niagara Falls				
North Bay and Nipissing District	4,330 50	4,914 37		583 87
Orangeville and Dufferin County	4,786 36	4,774 40	11 96	
Oshawa and Ontario County	8,106 00	8,096 00	10 00	
Ottawa and Carleton County	3,452 27	3,257 68	194 59	
Owen Sound and Grey County				
Parry Sound West	2,925 45	2,722 94	202 51	
Peel and Halton County	5,501 00	5,458 00	43 00	
Perth and Lanark County	800 00	614 50	185 50	
Peterborough	5,918 33	4,382 21	1,536 12	
Picton and Prince Edward County	1,115 37	894 76	220 61	
Port Arthur	4,783 29	4,578 98	204 31	
Port Hope, Cobourg				
Northumberland and Durham	6,000 00	5,544 00	456 00	
Prescott and Russell				
Renfrew County	3,753 62	2,068 51	1,685 11	
Sault Ste. Marie and Algoma District	15,618 36	14,638 94	979 42	
St. Catharines and Lincoln County	6,866 97	6,866 97		
St. Thomas and Elgin County	9,166 13	3,892 81	5,273 32	
Sarnia and Lambton County	3,087 89	2,313 26	774 63	
Simcoe and Norfolk County	3,901 03	3,274 16	626 87	
Stormont, Dundas and Glengarry	1,263 37	1,240 10	23 27	
Stratford and Perth County	4,717 21	4,417 21	300 00	
Sudbury			3,394 68	
Temiskaming District	3,236 37	3,027 57	208 80	
Toronto C. A. S	52,239 55	52,306 15		66 60
Toronto St. Vincent de Paul	10,592 16	12,026 03		1,433 87
Walkerton and Bruce County	6,514 22	5,310 07	1,204 15	
Welland County				
Welland City	669 72	516 50	153 22	
Wentworth County	482 94	383 73	99 21	
Windsor, Walkerville and Essex County				
Woodstock and Oxford County	6,378 16	6,378 16		
York County	5,820 00	5,820 00		
Total	286,346 34	268,809 22	26,096 14	5,164 34

REPORT

OF THE

Board of License Commissioners for Ontario

ON THE OPERATION OF THE

ONTARIO TEMPERANCE ACT

FOR THE YEAR

1924

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

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TORONTO
CANADA

To His Honour HENRY COCKSHUTT,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Report of the Board of License Commissioners for Ontario on the operation of *The Ontario Temperance Act* for 1924.

Respectfully submitted,

W. F. NICKLE,
Attorney-General.

Attorney-General's Department,
March 31st, 1925

REPORT

of the

BOARD OF LICENSE COMMISSIONERS FOR ONTARIO

on the Operation of the

ONTARIO TEMPERANCE ACT

For the License Year 1923-24

OFFICE OF THE BOARD, 71 GRENVILLE STREET,
TORONTO, March 31st, 1925.

TO THE HONOURABLE W. F. NICKLE, K.C., M.P.P.,
Attorney-General of the Province of Ontario.

SIR,—The Board of License Commissioners for Ontario has the honour to submit its Ninth Annual Report covering the operation of The Ontario Temperance Act for the year 1923-24, ending October 31, 1924.

THE SCHEDULES

Schedule A (1) gives the number of prosecutions by provincial officers. There were 95 convictions of holders of Standard Hotel Licenses, and 49 dismissals, as compared with 51 convictions and 22 dismissals during the previous year. Convictions of non-licensees were 3,387 and dismissals 656, and for the previous year convictions were 3,178 and dismissals 661.

It should be noted that included in the prosecutions are 1,194 convictions and 72 dismissals on the charge of being found in a public place in a state of intoxication, and in the previous year the convictions for this cause were 1,172 and the dismissals 105.

Schedule A (2) gives the returns for the District of Manitoulin, the only District remaining under The Canada Temperance Act.

Schedule B shows by License Districts the revenue accruing to the Province from fines under The Ontario Temperance Act, the total being $420,868.67 as compared with $379,509.31 for the previous year.

Schedule C shows expenses of enforcing the Act, in the Districts, the total being $180,986.11 as compared with $187,906.34 for the previous year.

Schedule D shows the total revenue from this Branch for the fiscal year ending 31st October, 1924, to be $564,367.42 as compared with $449,163.69 for the previous year.

Schedule E shows revenues from fines accruing to municipalities which have appointed officers under Section 120 of The Ontario Temperance Act. These amount to $475,754.83 as compared with $414,776.33 for the previous year.

The two sums $475,754.83 received by municipalities and $420,868.67 received by the Province show an aggregate sum of $896,623.50 paid in fines

as compared with $794,285.64, the total for the previous year. In addition to fines paid liquor to the value of $79,835.46 was confiscated.

Schedule F shows the distribution of Standard Hotels, licensed under Section 146, by license districts numbering 1,164 as compared with 1,252 for the previous year.

Schedule G shows the names of Ontario Temperance Act Inspectors and their addresses and Districts.

Schedule H shows the number of commitments for drunkenness to County and District gaols during the past 6 years.

Schedule J makes a comparison between the two years 1914 and 1924 in commitments for all offences and commitments for drunkenness, with percentages.

Schedule K shows names of persons or companies to whom Native Wine Certificates under Section 44 have been issued.

Physicians' Liquor Prescriptions and Other Orders

The following table shows the number of prescriptions on Dispensaries and other orders during the past five years:

	1920 *Doctors' Prescriptions*	*Other Orders*	*Total*
January	No record	No record	
February	76,390	9,306	85,696
March	69,340	8,447	77,787
April	60,717	7,821	68,538
May	57,499	7,547	65,046
June	51,913	6,550	58,463
July	50,605	6,575	57,180
August	47,286	6,274	53,560
September	54,938	6,789	61,727
October	55,798	6,243	62,041
November	51,754	5,835	57,589
December	74,323	7,897	82,220
	650,563	79,284	729,847

	1921 *Doctors' Prescriptions*	*Other Orders*	*Total*
January	43,013	5,310	48,323
February	45,180	5,446	50,626
March	47,260	5,923	53,183
April	42,844	5,445	48,289
May	40,457	6,639	47,096
June	30,152	3,957	34,109
July	31,264	4,122	35,386
August	37,443	5,134	42,577
September	42,914	5,634	48,548
October	44,060	5,664	49,724
November	44,701	5,894	50,595
December	71,178	8,939	80,117
	520,466	68,107	588,573

	1922 *Doctors' Prescriptions*	*Other Orders*	*Total*
January	42,726	6,184	48,910
February	44,775	6,170	50,945
March	52,079	7,086	59,165
April	50,419	6,694	57,113
May	49,266	6,799	56,065
June	48,719	6,747	55,466
July	47,022	6,717	53,739
August	52,174	7,543	59,717
September	53,237	6,858	60,095
October	52,232	7,005	59,237
November	53,060	6,902	59,962
December	77,605	8,625	86,230
	623,314	83,330	706,644

	1923 *Doctors' Prescriptions*	*Other Orders*	*Total*
January	51,258	5,095	57,353
February	59,420	6,622	66,042
March	60,129	6,665	66,794
April	53,075	5,991	59,066
May	54,886	6,416	61,302
June	53,743	6,164	59,907
July	52,394	6,156	58,550
August	58,196	6,916	65,112
September	56,769	6,498	63,267
October	58,122	7,190	65,312
November	57,715	6,872	64,587
December	87,877	9,275	97,152
	703,584	80,860	784,444

	1924 *Doctors' Prescriptions Quarts and dozens Ale:*	*Other Orders*	*Total*
January	52,299	6,702	59,001
February	54,872	6,837	61,709
March	59,444	7,179	66,623
April	58,095	7,177	65,273
May	58,959	7,256	66,215
June	54,099	6,721	60,820
July	57,301	7,046	64,347
August	60,704	7,087	67,791
September	59,495	7,328	66,823
October	64,059	8,100	72,159
November	62,937	7,500	70,437
December	97,593	11,319	108,909
	739,855	90,252	830,107

Note.—In "Other Orders" are included six-ounce and pint orders filled at Dispensaries, duplications, etc., which average probably 120 orders per month.

The prescriptions are those issued by physicians, and the orders include orders of physicians (for office use), druggists, dentists, veterinarians, holders of manufacturers' permits, hospitals, churches, etc.

Manufacturers' Permits

These permits for use of alcohol and liquor for manufacturing purposes numbered 391.

Sales of Native Wine

The number of permits issued during the year was 49 as compared with 32 during the previous year.

Liquor Prescriptions Issued by Doctors

The Board is pleased to note the continued co-operation of the great majority of the members of the medical profession in their efforts to confine the number of liquor prescriptions issued by them to cases of actual medicinal need.

The Committee from the Ontario Medical Association, Doctors N. A. Powell, John Ferguson, and T. C. Routley, has rendered invaluable assistance to the Board in dealing with the comparatively small number of physicians who have exceeded the maximum number of prescriptions which have been allowed per month.

The following tables furnish interesting information regarding physicians' liquor prescriptions on Ontario Government Dispensaries:

	Number Physicians	Percentage of all Physicians	Total Prescriptions	Individual Average
November, 1924.				
Non-Issuers	719	18.23	.....	.....
Issuing 1 to 25 prescriptions	2,190	55.54	20,521	9.37
" 26 to 50 "	973	24.68	39,187	40.27
" 51 to 75 "	61	1.55	3,229	52.93
" Over 75 "	.....	.....	.....	.....
	3,943	100.00	62,937	15.96
December, 1924.				
Non-Issuers	548	13.84	.....	.....
Issuing 1 to 25 prescriptions	1,605	40.53	17,011	10.59
" 26 to 50 "	1,399	35.33	58,053	41.50
" 51 to 75 "	401	10.12	21,946	54.73
" Over 75 "	7	.18	580	82.85
	3,960	100.00	97,590	24.64
January, 1925.				
Non-Issuers	699	17.75	.....	.....
Issuing 1 to 25 prescriptions	2,285	58.03	21,387	9.36
" 26 to 50 "	918	23.31	36,391	39.64
" 51 to 75 "	36	.91	1,870	51.94
" Over 75 "	.....	.....	.....	.....
	3,938	100.00	59,648	15.14

As in the past, the month of December shows a decided increase in the number of prescriptions issued, as compared with the months of November and January. In November, the number issued was 62,937. In December the number increased to 97,590, and in January decreased to 59,648. It might be only fair to remark that in many parts of the Province a severe epidemic of Influenza prevailed during the month of December.

Druggists

Legislation enacted at the Session of 1924 whereby all druggists who desire to fill liquor prescriptions must obtain permits from this Board has been of great assistance in controlling and in many cases stamping out a number of drug stores which had been opened up in various parts of the Province largely for the purpose of selling liquor illegally.

This fact, with the increased fines imposed upon unscrupulous violators of the law and the disciplining by the College of Pharmacy of some persistent offenders, has brought about greatly improved conditions.

Appeals for Clemency

There were 449 appeals for clemency considered during the last calendar year, and of these 195 received favourable consideration and 254 were refused.

Standard Hotel Licenses

The list of holders of Standard Hotel licenses is omitted this year. At a later date it is intended to issue a full list, and an attempt will be made to classify the hotels. It is expected that the classification will assist tourists and travellers in selecting such hotels as are likely to provide satisfactory accommodation.

Medicated Wines

The Legislature in 1924 passed important amendments which enabled this Board, in conjunction with the Provincial Board of Health, to better deal with evasive preparations. In recent years manufacturers of alleged medicated wines, especially in the Province of Quebec, where their preparations were ruled as liquor by the Quebec Liquor Commission, have been persistent in invading the Ontario market, and all over this Province, and particularly in the northern and eastern sections, these wines have been the cause of much intoxication. With the aid of amended Section 126, however, this irregularity has been greatly curtailed, and the evasive medicated wine business is much less flourishing than it had been.

Under the section mentioned, the Provincial Board of Health is qualified after careful analysis to certify whether or not a preparation is medicated sufficiently to prevent its use as an alcoholic beverage, and its certificate is conclusive evidence thereto in court. An adverse certificate has the effect of showing that the preparation should be classed as liquor, which can be sold legally only under the restrictions imposed by the Act. The following preparations have been certified against under the provision mentioned:

Dr. Coventry's Invalid Port Wine,
Dr. Clark's Tonic Wine,
Dr. J. O. Lambert's Elixir Tonic Wine
Dr. Winfrey's Tonic,
Perfection Tonic Wine,
Quinquina des Princes,
Ramsay's Tonic Wine,
St. John's Wine,
Sanitas Tonic Wine (Vin Sanitas),
303 Invalid Port,
Tonic Benedictin,
Tonic Porteau,
Vin Benedictin,
Vin Sanito,
Vin St. George's,
Vin St. Malo,

Vin Saint-Marc,
Vin St. Michel,
Vin St. Paul,
Vin Tonique Saint-Vivant,
Walker's Malt Extract,
Wilson's Invalids' Port Wine,
Wilton's Tonic Wine.

It is interesting to observe from the 1924 report of the Quebec Liquor Commission that in that Province war is determinedly waged against evasive preparations posing as medicated wines, a list being printed of no less than forty-five such preparations classed as liquor in the Province of Quebec, the list including a number which are in the Ontario list above.

The drug trade in Ontario has been circularized and a list furnished of preparations certified against, so that druggists are now informed on the subject, and they occasionally inquire of the Board when preparations with new names arise.

Manufacturers' Permits

The permits issued during the year for use of alcohol and other liquors for manufacturing purposes under Section 121 of the Act numbered 391. The commodity most used in manufacturing is alcohol, of which the use of 858,187 gallons of standard alcohol 65 overproof was permitted. The quantity actually used as reported by permit-holders during the year was:

In gallons of standard 65 o.p. (or 165 proof), 326,692.
In proof gallons (or 100 proof), 539,042.

All the large users manufacture in bond, the alcohol being taken out of bond and mixed for manufacturing purposes, or denatured, in the presence of an officer of the Department of Customs and Excise of the Dominion of Canada.

James Hales,
Chairman.

SCHEDULE A (1)

Statement showing number of prosecutions by Provincial Officers of cases for infractions of the Ontario Temperance Act for the year ending October 31, 1924.

License District.	Against Holders of Standard Hotel Licenses.		Against Non-Licensees.	
	No. of Convictions	No. of Dismissals	No. of Convictions	No. of Dismissals
Algoma			44	2
Brant and Haldimand (including City of Brantford)			53	5
Bruce	1		40	13
Carleton (including Ottawa)			44	5
Cochrane			120	7
Dufferin and part County Simcoe			32	12
Dundas and Stormont			109	4
Elgin (including St. Thomas)			35	4
Essex			59	10
Frontenac (including Kingston)	2		25	9
Glengarry			40	3
Grenville			34	4
Grey (including Owen Sound)			32	32
Halton			24	2
Hamilton	13	3	170	36
Hastings	1	1	48	7
Huron			84	9
Kent (including Chatham)			53	12
Kenora			36	5
Lambton East		1	12	9
Lambton (including Sarnia)	1	10	33	8
Lanark	2		26	4
Leeds (including Brockville)			64	6
Lennox and Addington			83	4
Lincoln (including St. Catharines)			45	6
Manitoulin (Canada Temperance Act)			10	5
Middlesex (including London)			29	4
Nipissing			52	5
Niagara Falls and part Welland (including City of Niagara Falls)	2	1	166	18
Norfolk			47	14
Northumberland and Durham	3		44	9
Ontario	5		40	3
Oxford (including Woodstock)			24	2
Parry Sound			64	4
Peel	3	1	30	2
Perth (including Stratford)	1		42	7
Peterborough (including the City of Peterborough	1		14	4
Port Arthur and Fort William	8	1	125	8
Prescott	1		45	3
Prince Edward and part of Hastings (including Belleville)			60	
Rainy River	2		31	2
Renfrew			37	8
Russell	1		34	2
Sault Ste. Marie			21	2
Simcoe and Muskoka	7		76	14
Sudbury	7		160	11
Timiskaming			147	7
Toronto	28	29	365	180
Victoria and Haliburton			46	1
Waterloo (including Kitchener)	2		75	34
Welland (including City of Welland)			67	4
Wellington (including City of Guelph)		1	32	9

SCHEDULE A (1)—Continued

License District.	Against Holders of Standard Hotel Licenses.		Against Non-Licenses.	
	No. of Convictions	No. of Dismissals	No. of Convictions	No. of Dismissals
Wentworth	3	1	5	1
Windsor	1	.....	141	69
York	.....	.....	13	6
Totals	95	49	3,387	656
Totals, previous year	51	22	3,178	661

Included in the foregoing cases are 1,194 convictions and 72 dismissals under charges of being found in a public place in an intoxicated condition, as compared with 1,172 and 105 respectively, in the previous year.

SCHEDULE A (2)

Statement showing number of convictions and dismissals under charges of violations of the Canada Temperance Act during the year ending October 31, 1924.

License District.	Convictions	Dismissals
Manitoulin	4	0
Total, previous report	2	0

SCHEDULE B

Statement showing amounts collected and payable to the Province for fines imposed under The Ontario Temperance Act, in each Ontario Temperance Act District, for the year ending October 31, 1924.

	$ c.		$ c.
Algoma	3,665 00	Norfolk	3,055 00
Brant and Haldimand	6,073 35	Northumberland and Durham	5,265 00
Bruce	5,737 00	Ontario	5,050 00
Carleton	4,515 00	Oxford	2,000 00
Cochrane	12,615 00	Parry Sound	4,000 00
Dufferin and Simcoe	2,280 00	Peel	3,760 00
Dundas and Stormont	7,814 90	Perth	6,670 00
Elgin	1,534 13	Peterborough	930 00
Essex	7,860 00	Port Arthur and Fort William	26,055 00
Frontenac	3,530 00	Prescott	3,350 00
Glengarry	1,900 00	Prince Edward	8,060 00
Grenville	2,500 00	Rainy River	2,604 00
Grey	3,795 00	Renfrew	1,845 00
Halton	2,630 00	Russell	1,670 00
Hamilton	32,835 00	Sault Ste. Marie	2,730 00
Hastings	2,500 00	Simcoe and Muskoka	6,471 26
Huron	5,840 00	Sudbury	28,465 00
Kenora	3,802 55	Timiskaming	13,232 47
Kent	6,045 00	Toronto	59,954 00
Lambton East	705 00	Victoria and Haliburton	2,020 00
Lambton	4,745 00	Waterloo	32,120 00
Lanark	1,525 00	Welland	5,235 00
Leeds	2,377 41	Wellington	4,630 00
Lennox and Addington	3,297 00	Wentworth	5,950 00
Lincoln	5,020 00	Windsor	25,730 00
Manitoulin C.T.A.	95 00	York	2,400 00
Middlesex	5,640 00		
Niagara Falls	10,895 00	Total	$420,868 67
Nipissing	5,845 00	Total previous financial year	379,509 31

SCHEDULE C

Statement showing expenses of enforcing Ontario Temperance Act in each Ontario Temperance Act District for the year ending 31st October, 1924.

	$ c.		$ c.
Algoma	1,416 55	Northumberland and Durham	1,965 80
Brant and Haldimand	1,621 19	Ontario	1,761 29
Bruce	2,714 93	Oxford	902 15
Carleton	2,628 69	Parry Sound	1,000 00
Cochrane	1,633 28	Peel	771 61
Dufferin and Simcoe	1,329 24	Perth	1,641 50
Dundas and Stormont	2,499 45	Peterborough	676 42
Elgin	772 80	Port Arthur and Fort William	773 20
Essex	1,911 89	Prescott	2,017 31
Frontenac	1,648 75	Prince Edward	2,781 23
Glengarry	1,227 07	Rainy River	2,500 00
Grenville	1,349 25	Renfrew	1,314 39
Grey	1,342 57	Russell	1,636 90
Halton	986 86	Sault Ste. Marie	267 00
Hamilton	5,284 05	Simcoe and Muskoka	2,557 20
Hastings	2,337 80	Sudbury	4,395 74
Huron	2,021 88	Timiskaming	2,454 05
Kenora	1,480 12	Toronto	1,989 03
Kent	1,278 91	Victoria and Haliburton	1,403 58
Lambton East	969 27	Waterloo	3,767 23
Lambton	1,838 39	Welland	1,618 38
Lanark	1,824 30	Wellington	1,735 71
Leeds	1,637 65	Wentworth	788 28
Lennox and Addington	1,588 80	Windsor	6,500 00
Lincoln	1,211 72	York	341 81
Manitoulin	619 97		
Middlesex	1,242 77		$99,671 94
Niagara Falls	1,930 68	Salaries of Inspectors	81,314 17
Nipissing	1,979 78		
Norfolk	1,783 52		$180,986 11
		Total previous year	187,906 34

SCHEDULE D

Statement showing revenue from O.T.A. Branch for the fiscal year ending 31st October, 1924.

	$ c.		$ c.
Native Wine Permits	3,600 00	Constables' Fees	18,156 62
Vendors' License Fees	15 00	Druggists' Permits	821 15
Standard Hotel License Fees	2,344 00	Sale of Confiscated Automobiles	5,393 64
Fines, Breach Ontario Temperance Act	426,665 80	Sundries, Refunds, Rebates, etc	774 68
Confiscated Liquor	106,596 53		$564,367 42
		Total previous fiscal year	449,163 69

SCHEDULE E

Showing fines imposed under the Ontario Temperance Act, paid to the municipalities where special officers have been appointed under Section 120 of the Ontario Temperance Act, for the year ending 31st October, 1924.

	Nov. 1st, 1923 to Oct. 31st, 1924		Nov. 1st, 1923 to Oct. 31st, 1924
	$ c.		$ c.
Amherstburg	1,230 00	Deseronto	575 00
Arnprior	360 00	Dymond	.....
Aylmer	576 00	Englehart	340 00
Acton	764 00	Elmira	190 00
Ailsa Craig	.....	Edwardsburg	.....
Alexandria	643 00	Elora	15 00
Alliston	7 75	Eastnor	.....
Brantford	3,015 00	Fort William	9,974 00
Bancroft	.....	Ford City	3,898 00
Bowmanville	140 00	Fort Erie	20 00
Brighton	10 00	Fort Frances	528 00
Brockville	1,084 00	Freeman	.....
Blenheim	.....	Galt	609 00
Blenheim Town	1,295 00	Guelph	1,375 00
Belleville	2,800 00	Gananoque	132 00
Bradford	.....	Georgetown	93 60
Blind River	1,295 00	Gravenhurst	.....
Burlington	693 00	Goderich	50 00
Burk's Falls	.....	Hamilton	12,950 00
Bridgeburg	431 00	Hespeler	350 00
Barrie	180 00	Hagersville	.....
Blandford	.....	Haileybury	430 00
Bayham	25 00	Hanover	.....
Bothwell	.....	Hawkesbury	105 00
Beverley	.....	Hastings	60 00
Caldwell	.....	Hepworth	.....
Crystal Beach	550 00	Humberstone	.....
Capreol	480 00	Huntsville	430 00
Cobourg	395 00	Huron County	.....
Carleton Place	205 95	Ingersoll	385 00
Colborne	25 00	Iroquois Falls	140 00
Cobalt	2,700 00	James Township	.....
Cochrane	5,875 00	Kenora	2,450 00
Courtright	.....	Kincardine	no report
Copper Cliff	1,320 00	Kitchener	4,855 00
Chapleau	1,090 00	Kingston	2,835 00
Campbellford	545 00	Kingston Township	.....
Chesley	.....	Kent County	6,550 00
Cardinal	.....	Keewatin	.....
Charlton	.....	Kapuskasing	1,500 00
Coldwater	.....	Leamington	751 00
Chelmsford Town	.....	Lion's Head	.....
Cornwall	1,780 00	Listowel	1,195 00
Cayuga	.....	Lucknow	24 00
Collingwood	470 00	London	15,450 00
Cannington	.....	Lucan	300 00
Chatham	1,340 00	Lanark Village	.....
Clifford	.....	Lakefield	35 00
Crowland	4,055 00	Lindsay	775 00
Calvert	5,561 78	McDougall Township	.....
Chapman	.....	Mattawa	190 00
Coleman	.....	Midland	500 00
Cache Bay	70 00	Madoc	20 00
Dunnville	.....	Massey	170 00
Dresden	260 00	Merritton	230 00
Dutton	.....	Meaford	50 00
Drury, Dennison and Graham	.....	Matheson	200 00
Dundas	470 00	Milton	70 00
Dryden	820 00	Mount Forest	.....

SCHEDULE E—Continued

	Nov. 1st, 1923 to Oct. 31st, 1924		Nov. 1st, 1923 to Oct. 31st, 1924
	$ c.		$ c.
Magnetawan	.....	Sturgeon Falls	1,200 00
North Bay	7,380 00	Sarnia	2,410 00
Niagara Falls	6,825 00	Sudbury	16,150 00
Napanee	310 00	St. Catharines	9,070 00
Niagara Town	10 00	St. Thomas	4,855 00
New Liskeard	1,370 00	Smith's Falls	2,180 00
Nepean	.....	Stratford	1,155 00
Neustadt	.....	Simcoe	80 00
Neelon and Garson	2,510 00	St. Vincent	.....
Norwood	.....	Sandwich	2,950 00
Newmarket	.....	Sherbrooke Township	.....
Norwich, North	.....	Sioux Lookout	850 00
Norwich Village	.....	St. Mary's	62 00
Nipigon	420 00	Stamford Township	.....
Ottawa	8,365 00	Southampton	80 00
Orangeville	425 00	Teck Township	.....
Oshawa	4,310 00	Toronto	164,195 00
Oakland Township	.....	Tillsonburg	10 00
Owen Sound	4,329 00	Trenton	1,735 00
Oxford, West, Township	.....	Tisdale Township	4,554 50
Oakville	680 00	Timmins	22,635 00
Port Arthur	12,484 50	Thamesville	.....
Preston	395 00	Thessalon	.....
Picton	1,725 00	Thorold Town	1,960 00
Pakenham	.....	Thorold Township	.....
Paris	50 00	Tavistock	.....
Parry Sound	760 00	Uxbridge	.....
Port Hope	305 00	Vankleek Hill	20 00
Peterborough	1,985 00	Woodstock	1,120 00
Pembroke	2,050 00	Walkerville	4,465 50
Petrolia	508 70	Woodhouse	.....
Perth	130 00	Wallaceburg	1,455 00
Portsmouth	.....	Wiarton	805 00
Port Perry	10 00	Welland Town	3,685 00
Port Stanley	95 00	Windsor	17,882 00
Prescott	26 00	Walkerton	30 00
Parkhill	.....	Waterloo Town	462 00
Paisley	.....	West Zorra	.....
Port Colborne	5,834 00	Whitby	1,075 00
Port Rowan	.....	Winchester	.....
Point Edward	50 00	West Lorne	.....
Penetanguishene	492 50	Webbwood	40 00
Port McNicoll	500 00	York County	5,100 00
Pelee Township	200 00	Zorra East	.....
Renfrew Town	910 00	Etobicoke	300 00
Rainy River	.....	Scarboro	675 00
Rayside Townhip	.....	York Township	750 00
Ridgetown	.....	York, North	250 00
Schreiber	.....		
Seaforth	.....	Total	475,754 83
Sault Ste. Marie	22,703 05		
		Total, previous report	414,776 33

SCHEDULE F

Statement showing the number of Standard Hotels licensed under Section 146 in each Ontario Temperance Act District for the year ending 31st October, 1924.

Algoma	11	Northumberland and Durham	40
Brant and Haldimand	17	Ontario	13
Bruce	37	Ottawa City	21
Carleton	2	Oxford	21
Cochrane	11	Parry Sound	18
Dufferin and part Simcoe	22	Peel	14
Dundas and Stormont	21	Perth	19
Elgin	20	Peterborough	25
Essex	10	Port Arthur and Fort William	17
Frontenac	30	Prescott	22
Glengarry	9	Prince Edward and Hastings (including Belleville)	20
Grenville	8	Rainy River	9
Grey	32	Renfrew	31
Halton	13	Russell	19
Hamilton	35	Sault Ste. Marie	8
Hastings	13	Simcoe and Muskoka	60
Huron	28	Sudbury	19
Kenora	7	Temiskaming	5
Kent	21	Toronto	85
Lambton	36	Victoria and Haliburton	22
Lanark	19	Waterloo	38
Leeds	22	Welland (including all but river municipalities)	13
Lennox and Addington	14	Wellington (including Guelph)	26
Lincoln	18	Wentworth	13
Middlesex (including London)	37	Windsor	21
Niagara Falls (including river municipalities)	17	York	26
Nipissing	15		
Norfolk	25	Total	1,164

SCHEDULE G—ONTARIO TEMPERANCE ACT INSPECTORS

License District	Inspector	P. O. Address
Algoma	Jas. Grigg	Bruce Mines.
Brant and Haldimand	R. J. Eacrett	Brantford.
Bruce	E. F. Widmeyer	Mildmay.
Carleton	Howard Graham	Ottawa.
Cochrane	T. H. Constable	Cochrane.
Dufferin	T. J. Robinson	Orangeville.
Dundas and Stormont	E. P. Foster	Morrisburg.
Elgin	Walter Ross	St. Thomas.
Essex	W. J. Sample (acting)	Essex.
Frontenac	Wm. McCammon	Kingston.
Glengarry	F. Wetherall, P.C. (acting)	Cornwall.
Grenville	Chas. Pumb (acting)	Prescott.
Grey	M. C. Beckett	Owen Sound.
Halton	R. Reevely (acting)	Brampton.
Hamilton	E. A. Rae, Sgt. (acting)	Hamilton.
Hastings	W. T. Nugent	Madoc.
Huron	W. T. Pellow	Goderich.
Kent	M. Side	Chatham.
Kenora	W. J. Parfitt	Keewatin.
Lambton East	F. A. Jennings, P.C. (acting)	Thedford.
Lambton West	F. S. Elliott, P.C. (acting)	Sarnia.
Lanark	J. J. McGregor	Carleton Place.
Leeds	F. B. Taber	Brockville.
Lennox and Addington	W. S. Exley	Napanee.
Lincoln	J. W. King	St. Catharines.
Manitoulin (C. T. Act)	Wm. Vincer	Mindemoya.
Middlesex	W. Bolton	London.
Nipissing	J. Gagne	North Bay.
Niagara Falls	J. F. Miller	Niagara Falls.
Norfolk	R. Edmonds	Simcoe.
Northumberland and Durham	G. Goodrich	Cobourg.
Ontario	C. A. Mason	Oshawa.
Oxford	W. McCready	Woodstock.
Parry Sound	A. R. Knight, P. C. (acting)	Parry Sound.
Peel	R. Reevely	Brampton.
Perth	M. H. Moore	Stratford.
Peterborough	J. Stewart	Peterborough.
Port Arthur and Fort William	G. Griffith (acting)	Port Arthur.
Prescott	A. DeHaitre	L'Orignal
Prince Edward	F. J. Naphan	Belleville.
Rainy River	W. Kilbride, P.C. (acting)	Fort Frances.
Renfrew	D. Silvester	Renfrew.
Russell	Wm. Russell	Ottawa.
Sault Ste. Marie	P. Walter	Sault Ste. Marie.
Simcoe and Muskoka	J. R. Reid	Orillia.
Sudbury	T. N. Kilpatrick	Sudbury.
Temiskaming	W. S. Blackwall, P.Insp. (acting)	Haileybury.
Toronto	A. A. Montgomery	Toronto.
Victoria and Haliburton	D. H. Porter (acting)	Lindsay.
Waterloo	E. Zinkann	Kitchener.
Welland	G. A. Ekins	Welland.
Wellington	J. A. Grant	Guelph.
Wentworth	W. W. Forsythe	Dundas.
Windsor	M. N. Mousseau	Windsor.
York	D. MacKenzie	Woodbridge.

SCHEDULE H

A table showing the number of commitments to each gaol for drunkenness during the years 1919 to 1924, both inclusive. The figures for 1923 and 1924 are compared, and the increase or decrease in each place is shown.

Name of Gaol	1919	1920	1921	1922	1923	1924	Increase 1924	Decrease 1924
Barrie	.....	3	15	4	5	2	.....	3
Belleville	4	18	3	3	2	12	10	.....
Brantford	60	49	60	43	40	53	13	.....
Brampton	1	12	3	5	7	14	7	.....
Brockville	19	16	13	.....	9	5	.....	4
Bracebridge	.....	1	1	1	2	1	.....	1
Cayuga	.....	1	6	.....	.....	.....	.....	.....
Cornwall	2	11	5	14	16	26	10	.....
Cobourg	4	1	5	1	3	4	1	.....
Chatham	15	24	37	25	16	55	39	.....
Fort Frances	24	1	.....	2	.....	.....	.....	.....
Goderich	.....	1	.....	2	6	8	2	.....
Guelph	1	2	2	.....	9	12	3	.....
Gore Bay	.....	1	5	4	.....	2	2	.....
Hamilton	127	152	199	173	192	269	77	.....
Kingston	26	36	43	47	26	57	31	.....
Kitchener	1	16	6	7	3	17	14	.....
Kenora	1	2	3	5	3	6	3	.....
London	132	166	189	209	187	202	15	.....
Lindsay	.....	1	6	4	3	4	1	.....
L'Orignal	3	.....	2	2	2	.....	.....	2
Milton	.....	.....	.....	.....	.....	.....	.....	.....
Napanee	3	.....	.....	1	5	6	1	.....
North Bay	12	16	35	39	40	34	.....	6
Ottawa	69	250	180	130	78	129	51	.....
Owen Sound	2	2	3	2	3	9	6	.....
Orangeville	.....	.....	.....	.....	.....	.....	.....	.....
Perth	1	3	1	.....	2	2	.....	.....
Picton	4	4	1	1	17	31	14	.....
Pembroke	.....	7	2	4	5	6	1	.....
Peterborough	11	6	13	12	14	12	.....	2
Port Arthur	19	92	156	94	153	160	7	.....
Parry Sound	32	31	45	5	14	20	6	.....
Simcoe	.....	4	4	2	6	.....	.....	6
St. Catharines	13	27	64	97	62	84	22	.....
Sarnia	9	30	38	19	35	34	.....	1
Stratford	3	7	17	9	7	10	3	.....
Sandwich	7	102	119	87	92	129	37	.....
St. Thomas	5	12	31	11	17	10	.....	7
Sault Ste. Marie	33	80	99	59	102	84	.....	18
Sudbury	276	719	783	193	297	470	173	.....
Toronto	2,440	2,486	2,368	2,011	1,828	1,823	.....	5
Walkerton	1	.....	1	.....	1	.....	.....	1
Woodstock	27	33	32	20	18	5	.....	13
Welland	18	31	90	49	72	146	74	.....
Whitby	4	30	15	3	6	23	17	.....
Lock-ups:								
Atikokan	.....	.....	.....	.....	.....	3	3	.....
Burk's Falls	.....	.....	.....	1	.....	.....	.....	.....
Byng Inlet	.....	.....	.....	.....	.....	2	2	.....
Cobalt	4	22	17	20	75	45	.....	30
Killarney	.....	.....	.....	.....	.....	.....	.....	.....
Manitowaning	.....	.....	.....	.....	.....	.....	.....	.....
Mine Centre	2	3	2	3	2	1	.....	1
Webbwood	.....	.....	.....	.....	.....	.....	.....	.....
Totals	3,415	4,511	4,719	3,423	3,482	4,027	645	100

SCHEDULE J

A Table comparing commitments for ALL OFFENCES and for DRUNKENNESS alone for the two years, 1914 and 1924

Location of Gaol.	Total commitments for all offences		Percentage of decrease in total commitments.	Total commitments for drunkenness.		Percentage of decrease in total commitments for drunkenness.
	1914	1924		1914	1924	
Barrie	332	98		140	2	
Belleville	371	250		63	12	
Brantford	272	128		108	53	
Brampton	42	82		2	14	
Brockville	184	97		62	5	
Bracebridge	61	24		4	1	
Cayuga	69	32		5		
Cornwall	105	134		27	26	
Cobourg	130	9		36	4	
Chatham	271	224		83	55	
Fort Frances	345	158		149		
Goderich	70	65		6	8	
Guelph	102	102		16	12	
Gore Bay	22	30			2	
Hamilton	1,438	874		603	269	
Kingston	206	120		129	57	
Kitchener	226	185		48	17	
Kenora	91	62		19	6	
London	911	614		500	202	
Lindsay	62	80		9	4	
L'Orignal	16	28		2		
Milton	388	122		12		
Napanee	95	40		45	6	
North Bay	390	373		93	34	
Ottawa	1,351	772		346	129	
Owen Sound	90	87		17	9	
Orangeville	28	47		1		
Perth	138	45		22	2	
Picton	59	70		32	31	
Pembroke	132	75		50	6	
Peterboro'	389	188		143	12	
Port Arthur	1,120	558		444	160	
Parry Sound	258	152		55	20	
Simcoe	117	64		32		
St. Catharines	310	188		102	84	
Sarnia	395	222		237	34	
Stratford	179	84		73	10	
Sandwich	336	654		44	129	
St. Thomas	162	162		48	10	
S. S. Marie	364	242		73	84	
Sudbury	2,651	1,280		1,643	470	
Toronto	7,524	6,146		3,073	1,823	
Walkerton	47	46		4		
Woodstock	227	110		77	5	
Welland	432	413		131	146	
Whitby	98	163		17	23	
LOCK-UPS.						
Atikokan, Byng Inlet, Cobalt, Mine Centre, Webbwood	171	96		23	51	
	22,777	15,879	30.29	8,848	4,027	54.49

SCHEDULE K

Native Wineries—List of holders of native wine certificates from the Board, under Section 44 Ontario Temperance Act, valid until October 31st, 1924.

No.	Name	Address	Gals. Capacity
80	Louis Lenardon	Fort William	7,000
81	Peter Belluz	Fort William	3,000
82	Nicholas Rizzo & Son	Hamilton	4,000
83	Alex. Thomas (Cooksville Wine V.)	Cooksville	2,500
84	Beamsville Winery (D. DePetro) (H. Tufford)	Beamsville	3,000
85	Samuel Badalato	London	2,500 to 3,000
86	Francois Lamotte	Windsor	9,000
87	Carl Luelo	Kitchener	3,000
88	Clovis Robinet	Sandwich	5,500
89	Victor Robinet	Sandwich	3,000
90	A. R. DeConza & Son	St. Catharines	20,000
91	Carlo Rossoni	Windsor	9,000
92	F. L. Furminger	St. Catharines	8,000
93	Alex. Greco	Sault Ste. Marie	4,000
94	Jules Robinet	Sandwich	25,000
95	Luigi Meconi, Mariano Meconi	Windsor	4,000
96	Dominion Wine Growers, Limited	Oakville	100,000
97	Rabbi Jacob Gordon	Toronto	700
98	John Tantardini	Guelph	2,000 to 2,500
99	T. C. Hagaman	Oakville	6,000
100	Ontario Grape Growing & Wine Mfg. Co., Ltd.	St. Catharines	400,000
101	Mac. Dolcetti	Port Arthur	3,500
102	Giovanni Paparoni	Welland	1,200
103	Guiseppe Cazzola	Windsor	3,500
104	Antonio Nero	Welland	400
105	T. G. Bright & Co., Limited	Niagara Falls	400,000
106	Leopold Roumegous	Cooksville	1,500
107	Rabbi M. H. Levy	Toronto	2.000
108	Harry Lloyd Walker	Grimsby	2,000
109	Canadian Grape Products, I imited	Jordan	300,000
110	W. N. Counsell	St. Catharines	20,000
111	The Stamford Park Wine Co., Limited	Niagara Falls	250,000
112	Hillrust Fruit Growers, Limited	Thorold	15,000
113	Wilfrid Renaud	Windsor	500
114	Franco Cerra	Fort William	1,000
115	National Fruit & Wine Co	Toronto	140,000
116	J. B. Pelletiero	Fairbanks	500
117	H. R. Ellis	Norval	300
118	J. S. Hamilton & Co., Limited	Brantford	66,000
119	Canadian Wine Co	Toronto	8,000
120	Albert Boudy	Windsor	500
121	Fred J. Kampmann	Kitchener	500
122	Bruno Huehnerhard	Kitchener	750
123	See Native Wines Certificate No. 128		
124	Victor Subosits	Crowland Township	800
125	Ontario Wine Co	New Toronto	25,000
126	Turner Wine Co	Toronto	1,700
127	Thorold Winery (F. Piro and M. Antici)	Thorold	15,000
128	Toronto Wine Mfg. Co., Ltd	Toronto	30,000

ONTARIO GOVERNMENT DISPENSARIES

GENERAL MANAGER'S REPORT

TORONTO, 15th January, 1925.

JAMES HALES, ESQ., K.C.,
Chairman, Board of License Commissioners for Ontario,
71 Grenville Street, Toronto.

DEAR SIR,—

I have the honour to present my annual report to the Board, covering the operations of the Dispensaries for the fiscal year ending October 31st, 1924.

PUBLIC SERVICE

For some time past we had been endeavouring to secure suitable quarters for our Kingston dispensary and repeated efforts had been unsuccessful, but this year we were exceedingly fortunate in being able to obtain a lease of the western portion of the splendid City Hall, premises formerly occupied by the Bank of British North America, and we entered into the same on June 30th, 1924. We believe the people of Kingston have appreciated the move, as the former dispensary was very much confined and not at all suitable to our requirements, whereas the new dispensary is commodious, well-lighted, and as we retained the bank fittings, bears much resemblance to the office of one of our chartered banks.

We continued, as in the past, to make certain wherever possible, that mail orders were despatched the same day as received, a feature of our work which we have ever considered as one of the utmost importance. Mail order shipments showed an increase of 11.24 per cent., total shipments being 168,650, as against 151,602 in the previous fiscal year. The monthly and daily averages were respectively 14,054 and 554, compared with 12,633 and 502 during the previous year. Express charges paid amounted to $102,633.05 as against $90,-276.50 during the previous year, an increase of 13.69 per cent. In addition we made 551 express shipments to hospitals, colleges and government institutions, which purchase liquors at reduced charges and also pay the express charges.

In the cities where dispensaries are located, delivery service by auto truck was maintained as in previous years.

EMPLOYEES

Efficient service was rendered by the employees of all departments, and practically no complaints were received from the public, with respect to the service given, a condition of affairs of which we feel proud, more especially as the employees are constantly before the public. The dispensaries on October 31st, 1924, employed 148 persons.

PRICE OF LIQUORS

On January 1, 1924, we made a substantial reduction in the prices of practically all our liquors, on the very day that the sales tax was increased from four and a half to six per cent., which in the case of Canadian liquors was a very

heavy increase, in view of the fact that the sales tax on domestic liquors had formerly been levied only on the "in bond value," whereas the new regulation stipulated that the sales tax in future, with respect to domestic liquors, should be levied on the "excise paid value." Since the imposition of the sales tax, the same has always been charged on the duty paid value, on imported liquors. The sales tax was some months later reduced from six to five per cent.

A substantial purchase of alcohol made in December, 1923, on which we paid the sales tax then in effect, permitted us for over a year to continue selling the same to hospitals without any increase in price, which otherwise must have been increased, as we sell to hospitals at a very low figure, and the sales tax on domestic alcohol was increased to the extent of ninety-one cents a gallon, but later on, with the decrease in the sales tax, the increase was reduced to seventy-five cents. It is perhaps well to point out, in view of the criticisms that are to be heard about the prices of liquors, that the Department of Customs and Excise collected, during the fiscal year, either directly from the dispensaries or indirectly from Canadian distillers, brewers and wine growers on sales to the dispensaries, which the dispensaries had to pay, in customs, excise and sales tax, the sum of $2,198,786.99.

Purchases

The policy of making our purchases of liquors from long established and well-known firms was strictly adhered to, and we made purchases with a view to turning over the same as quickly as possible. Stocks on hand at the close of the fiscal year amounted to $888,097.98.

Prescriptions and Requisitions

Compared with the preceding twelve months there was an increase of 44,603 in the number of prescriptions and requisitions that passed through the eight dispensaries, and the increase was well distributed between the counter and the mail order sales. It should be noted that the increase was not as great as the increase shown in our report of a year ago, was over the previous year.

Financial Statement

Sales.—The total sales amounted to $5,028,747.03 as against $4,840,875.82. The daily average was $16,541.93. The increase is to be accounted for by two outstanding reasons: (1) the increase in the number of prescriptions and requisitions; (2) the price reduction apparently caused many who hitherto purchased domestic whiskies to purchase the Scotch, thus materially increasing our total sales, since Scotch sells at approximately one dollar a bottle more than Canadian. Sales showed 65% imported liquors and 35% domestic by value, and 60% imported and 40% domestic by gallonage, compared with 57½% imported and 42½% domestic by value and 50½% imported and 49½% domestic by gallonage during the year ending October 31st, 1923.

Gross Profits.—Once again we reduced our percentage of profit as a result of the cut in our prices. The gross profit made was 27.17%, or, including hospital sales, 27.05%. In 1920, the gross profit was 41.06%; in 1921, 36.56%; in 1922, 33.81% and in 1923, 30.61%; but the figures for 1920 and 1921 did not include hospital sales and other sales by head office, which would have slightly reduced the percentage.

PAYMENTS.—During the course of the year, we paid to the Provincial Treasurer the sum of $850,000, an amount somewhat greater than we anticipated being able to hand over, the increased sales being responsible therefor. Since the dispensaries came into operation we have paid to the Provincial Treasurer a total sum of $3,350,000.

OVERHEAD.—The percentage of overhead expenses was 9.63, in which are included discounts to druggists amounting to 1.37 and mail order expense, including prepaid express charges amounting to 2.74. There was a slight reduction in the percentage of overhead over the previous year.

BREAKAGE.—Interior and irrecoverable breakage was .04% of the sales as against .06% last year. The utmost precaution is taken at the Central Warehouse and the various dispensaries to avoid breakage.

PROPORTIONS OF BRANDS SOLD.

The following table will show, by two sample months, the proportions of different classes of liquor sold.

	July, 1924		October, 1924	
Alcohol, bottled	$5.937 or	1.5	$8,022 or	1.8
" canned	6,723	1.8	8,252	1.9
Ale and Stout, Bass and Guinness	5,195	1.3	3,773	.85
Ale, etc., domestic	20,413	5.2	17,216	3.9
Bitters	192	.05	214	.05
Brandies	26,769	6.95	32,837	7.45
Champagnes	996	.25	840	.2
Gin	43,556	11.3	36,199	8.2
Port Wine	901	.24	1,042	.25
Rum	8,928	2.3	16,656	3.8
Sherry	446	.11	458	.1
SIX OUNCE DISPENSARY BOTTLING				
Brandy, Gin, Rum and Scotch	9,786	2.5	12,846	2.9
WHISKEYS:				
Canadian, 40, 26, and 20 ounce	86,848	22.4	99,314	22.5
Canadian 6 ounce	12,873	3.3	15,612	3.5
Irish	16,623	4.3	20,577	4.6
Scotch	141,339	36.5	168,108	38.
		100.		100.

VARIOUS DEPARTMENTS.

HEAD OFFICE.—The same high standard of efficiency was maintained by the head office as in past years. The accounting branch furnished to the Board, monthly, a financial statement, embracing balance sheet, profit and loss account, operating expenses, central warehouse stock account and a schedule of the insurance in force. Head office forwarded to the Board reports of the daily sales of the dispensaries, a monthly statement of the stock movement, reports of the two inspectors who are constantly inspecting the dispensaries and many special reports that were asked for.

CENSOR'S DEPARTMENT.—The duties of this department were almost doubled this year as a result of the Board passing over to the dispensaries the work of collating the monthly returns from the druggists of Ontario, the same containing full information as to how liquors purchased had been disposed of. The department has continued to furnish to the Board every month a statement

containing the number of prescriptions issued by each physician, and the quantities of liquor obtained on requisitions by physicians for office use, by dentists, druggists, veterinary surgeons, manufacturers and hospitals; and the monthly statement now contains, in addition, the number of prescriptions and requisitions written by each physician on which liquor was obtained at the various drug stores, likewise with respect to dentists, veterinary surgeons, etc. It has continued to obtain the signatures of all new graduates from the various colleges who are permitted to prescribe or obtain liquor; and has kept in constant touch with the governing bodies over the physicians, dentists, druggists and veterinary surgeons, in order that dispensary lists of graduates shall be authentic. The increased duties placed upon this department necessitated the engagement of seven additional employees.

Central Warehouse.—During the past year this department handled 175,445 cases of liquor, a task of no mean magnitude. Whatever bottling we do, very small in proportion to the volume of our business, is done by this department. Central warehouse receives all shipments from overseas and the majority of the shipments from the Canadian distilleries, and takes care of the forwarding of the liquors to the various dispensaries. The department also has charge of confiscated stock, and a most minute examination is made of every bottle, barrel, etc., received.

Dispensaries.—Careful attention to business on the part of the managers and the employees resulted in many encomiums being passed on their work, particularly by mail order customers.

In closing, I desire to take the opportunity of expressing my thanks to the Board of License Commissioners for assistance freely given. Our auditors have from time to time made suggestions which we always endeavoured to comply with.

Respectfully yours,

ONTARIO GOVERNMENT DISPENSARIES,

A. H. Birmingham,
General Manager.

ONTARIO GOVERNMENT DISPENSARIES

REPORT OF AUDITORS

TORONTO, December 19th, 1924.

JAMES HALES, ESQ.,
Chairman, Board of License Commissioners of Ontario.
25 Queen's Park, Toronto.

DEAR SIR,—

We have audited the books and accounts of the Dispensaries, Central Office and Central Warehouse for the year ending 31st October, 1924, and have prepared the enclosed Balance Sheet and schedules relative thereto, which, subject to the following remarks, exhibit a true and correct view of the position of the undertaking on 31st October, 1924, and a correct statement of the earnings for the year.

We report in detail as follows:

BALANCE SHEET

ASSETS.

Real Estate and Buildings, $229,819.33.

Of this amount $34,441.37 represents the cost of the land at the rear of 154 Wellington Street West, purchased in 1922, and the garage building erected thereon, and $205,000, the cost price of the land and buildings at 154 Wellington Street West, purchased in 1922. Depreciation at the rate of 5% per annum has been provided on the cost of the garage building, and on an estimated value of $133,500, for the building at 154 Wellington Street West, making a total provision for depreciation to 31st October, 1924, of $9,622.04.

We have not on this occasion examined the title to these properties, but we saw a copy of the title deeds at the time of purchase certified by the Department of the Provincial Secretary as being a true copy.

Petty cash	$2,475 00
Dominion Bank, Toronto	96,562 11
Dominion Bank, London, England	691 37
	$99,728 48

We verified the cash at Central Office and Dispensary No. 1 by actual count on 31st October, 1924, and received a certificate from the Branch Manager of each dispensary and a representative from Central Office, as to the amounts on hand at the dispensaries.

The bank balances are in agreement with certificates from your bankers after allowing for outstanding cheques.

Accounts receivable, hospitals and other institutions, etc	$7,354 67
Freight claims and duty recoverable	4,569 54
Accrued bank interest	1,608 35
	$13,532 56

We have carefully examined the accounts, which consist principally of balances owing from hospitals and other institutions, and in our opinion these

will be collected without appreciable loss. The accrued bank interest has been compared with the monthly reports from your bankers. Sufficient reserve has been provided to cover any loss in collection of freight claims.

Stock of Liquors at Cost Price, $888,097.98.

Your General Manager has certified that an inventory of stock was taken under his direction at 31st October, 1924, and was priced at cost, excluding unpaid duty on goods still in bond amounting to $668,705.39.

The inventories at the dispensaries were taken by the managers and one of the Central Office staff, and at the Central warehouse by the chief stock accountant and the warehouseman, on 31st October, 1924, and were checked with the stock ledgers kept at the Central Office and found to be in accordance therewith. Your chief stock accountant has certified that he has checked the costing, extensions and additions of all the inventories and has also compared the quantities with the stock ledgers, and that they are correct.

Attached hereto, Schedule 5, is a statement showing the value of the stock on hand and of the furniture and fixtures at each dispensary, also the amount of fire and other insurance carried.

The confiscated stock on hand at Toronto, 31st October, 1924, amounting to $42,755.55, is not included in the assets, as the dispensaries only handle the stock, and keep the records on behalf of the Board of License Commissioners, purchasing from the Board such stock as they require from time to time.

Fire, riot and burglary insurance is carried on confiscated liquors in conjunction with liquors, etc., owned by the Ontario Government Dispensaries, as shown on schedule 5.

Cases, barrels, etc., on hand	$2,233 20
Stationery and supplies	7,235 59

The chief stock accountant certifies that stationery and supplies on hand, priced at cost, amounted to $7,235.59. A reserve has been provided for the whole amount. He also certifies that there are sufficient empty cases and other containers on hand and returnable to the brewers and distillers at invoice cost, to cover the total value of the cases and barrels.

Liabilities.

Accounts Payable, $41,901.53.

Your accountant has certified that all known liabilities to 31st October, 1924, were included in the books at that date.

Contingent Liabilities.

The value of goods ordered but not received to 31st October, 1924, amounted to $509,180.10 as per schedule 6 attached, and the duty payable on stocks in bond amounted to $668,705.39. Your General Manager certified that these amounts were correct.

Leases.

Schedule 7 gives a description of the various premises occupied by your dispensaries under leasehold.

Reserve for Supplies and Contingencies, $15,302.23.

This includes a reserve for the total amount of the stationery and supplies and sufficient to provide for any losses in the collection of the claims and accounts receivable.

Surplus, $1,183,443.38.

This is the balance of profits made since the dispensaries were opened on 24th May, 1919, after paying $3,350,000 to the Provincial Treasurer and writing off the whole of the machinery, equipment and office furniture, and alterations to the building at 154 Wellington Street West.

Details of the profits earned for the year ending 31st October, 1924, are shown in the attached schedules 1, 2 and 3. We have to report on the principal items as follows:

Profit and Loss Account.—Schedule 1.

This schedule shows in detail the operations of the various dispensaries. The liquors are purchased through the Central Warehouse and are charged up to the various dispensaries at cost.

The gross profits resulting from sales at dispensaries amounted to....			$1,351,783 36	27.17%
From this must be deducted the following:				
Discount on sales to chemists and druggists...	$68,395 70	1.37%		
Mail order and delivery expense.....	136,155 49	2.74%		
Operating expense, including Central Office and Central Warehouse expense.....	279,461 44	5.62%		
			484,012 63	9.73%
Leaving a net profit on operation of dispensaries of.....			$867,770 73	17.44%

Your policy is to sell the liquors at the same price throughout the Province, and to pay the expense of special packing and express charges. We have shown on the same schedule the comparative statements of the total business done by each dispensary.

The percentage of gross profits earned by each dispensary were:

No. 1, Toronto.....	27.33 per cent. of sales
No. 2, Toronto.....	26.91 per cent. of sales
No. 3, Hamilton.....	26.86 per cent. of sales
No. 4, London.....	27.07 per cent. of sales
No. 5, Windsor.....	27.02 per cent. of sales
No. 6, Kingston.....	26.62 per cent. of sales
No. 7, Ottawa.....	27.46 per cent. of sales
No. 8, Fort William.....	28.21 per cent. of sales

The differences are accounted for by the varying ratio of profits on the class of liquor sold. The reductions in the gross profit percentages are due to a recent revision of prices on a lower scale.

Operating Expenses—Schedule 2.

This schedule shows details of the various expenses together with the percentages that these expenses bear to the sales. The largest item consists of salaries, etc., $188,977.02, being approximately 3.79% of the total sales of $4,976,000.50. It must, however, be borne in mind that the bulk of the sales are made in single bottles and record has to be kept of every bottle at the Central Office. The amount written off for breakages is $1,770.14 or .04% of the sales. Under the present system of cost records it is the only item of stock which cannot be checked and should be subject to the closest supervision by the management.

Net Profit and Loss Account.—Schedule 3.

This schedule shows the total sales for the year, including sales of alcohol and sales to hospitals, and miscellaneous receipts, and the net profits after

charging up the cost of alcohol sold and liquors sold to hospitals and writing off the expenditure on machinery, equipment, furniture and alterations to building. The percentage of net profits to total sales was 17.45%.

Yours faithfully.

CLARKSON, GORDON & DILWORTH.

ONTARIO GOVERNMENT DISPENSARIES

BALANCE SHEET, 31st OCTOBER, 1924

ASSETS

Real Estate and Buildings:			
Land, 69 Simcoe Street	$20,000 00		
Garage Building, 69 Simcoe Street	14,441 37		
		$34,441 37	
Land and Buildings, 154 Wellington Street West		205,000 00	
		$239,441 37	
Less: Reserve for depreciation of buildings		9,622 04	
			$229,819 33
Cash and Bank Balances:			
Petty Cash		$2,475 00	
In Dominion Bank, Toronto		96,562 11	
" " London, England		691 37	
			99,728 48
Accounts Receivable:			
Hospitals and other institutions, etc		$7,354 67	
Freight claims and duty recoverable		4,569 54	
Accrued Bank interest		1,608 35	
			13,532 56
Inventories:			
Stock at cost (Schedule 5)		$888,097 98	
Cases, barrels, etc., on hand		2,233 20	
Stationery and supplies		7,235 59	
			897,566 77
			$1,240,647 14

LIABILITIES

Accounts payable			$41,901 53
Reserve for supplies and contingencies			15,302 23
Surplus:			
Balance at 1st November, 1923		$1,156,149 09	
Profit for year		877,294 29	
		$2,033,443 38	
Less: Paid to Provincial Treasurer		850,000 00	
			1,183,443 38
Contingent Liabilities:			
For undelivered orders (Schedule 6)		$509,180 10	
For duty on stocks in bond		668,705 39	
			$1,240,647 14

Referred to in our report of this date attached.

CLARKSON, GORDON & DILWORTH,
Chartered Accountants.

Toronto, 19th December, 1924.

ONTARIO GOVERNMENT DISPENSARIES

Profit and Loss Account for Year ending 31st October, 1924

	Dispensary No. 1 Toronto		Dispensary No. 2 Toronto		Dispensary No. 3 Hamilton	
	Amount	Per-centage	Amount	Per-centage	Amount	Per-centage
	$ c.		$ c.		$ c.	
Stock on hand, 1st November, 1923	42,673 18	2.02	17,546 12	3.55	38,873 40	6.12
Stock purchased from Central Warehouse	1,530,824 51	72.42	366,817 74	74.22	462,313 07	72.72
Returns to stock	166 65	.01	3.50	.....	16.25	.....
	1,573,664 34	74.45	384,367 36	77.77	501,202 72	78.84
Deduct:						
Breakage recoverable	102 00	.....	.....	.....	7 76	.....
Breakage, interior and irrecoverable	496 84	.02	181 97	.04	155 29	.03
Stock on hand, 31st October, 1924	36,859 22	1.76	22,922 97	4.64	36,067 03	5.67
	37,458 06	1.78	23,104 94	4.68	36,230 08	5.70
Cost of stock sold	1,536,206 28	72.67	361,262 42	73.09	464,972 64	73.14
Sales	2,113,835 96	100.00	494,250 68	100.00	635,722 00	100.00
Gross profit on sales	577,629 68	27.33	132,988 26	26.91	170,749 36	26.86
Deduct:						
Operating expenses	97,590 77	4.62	28,182 96	5.70	39,703 93	6.24
Discounts	34,434 36	1.62	1,012 47	.20	8,074 35	1.27
Mail order and delivery expenses	61,442.43	2.91	3,391 18	.69	14,976 51	2.36
	193,467 56	9.15	32,586 61	6.59	62,754 79	9.87
Net profit	384,162 12	18.18	100,401 65	20.32	107,994 57	16.99

Comparative Statement of Percentage of Sales, etc., Attributable to Each Dispensary

	$ c.		$ c.		$ c.	
Counter sales	1,396,063 18	40.75	494,250 68	14.43	474,261 00	13.85
Mail order sales	717,772 78	46.28	.....	.....	161,461 00	10.41
Cost of stock sold	1,536,206 28	42.39	361,262 42	9.97	464,972 64	12.83
Gross profit	577,629 68	42.73	132,988 26	9.84	170,749 36	12.63
Operating expenses	97,590 77	34.92	28,182 96	10.08	39,703 93	14.21
Discounts	34,434 36	50.34	1,012 47	1.48	8,074 35	11.81
Mail order shipping	61,442.43	45.13	3,391 18	2.49	14,976 51	11.00
Net profit	384,162 12	44.27	100,401 65	11.57	107,994 57	12.44

ONTARIO GOVERNMENT DISPENSARIES

PROFIT AND LOSS ACCOUNT FOR YEAR ENDING 31ST OCTOBER, 1924—*Continued*

	Dispensary No. 4 London		Dispensary No. 5 Windsor		Dispensary No. 6 Kingston	
	Amount	Per-centage	Amount	Per-centage	Amount	Per-centage
	$ c.		$ c.		$ c.	
Stock on hand, 1st November, 1923	39,522 83	6.95	22,418 51	8.12	32,581 40	8.30
Stock purchased from Central Warehouse	403,410 40	70.96	208,196 34	75.42	291,421 55	74.19
Returns to stock	5 00	.....	77 75	.03	10 50	.....
	442,938 23	77.91	230,692 60	83.57	324,013 45	82.49
Deduct:						
Breakage recoverable	132 57	.02	129 83	.05	284 56	.07
Breakage, interior and irrecoverable	142 44	.02	26 03	.....	32 24	.01
Stock on hand, 31st October, 1924	28,060 41	4.94	29,081 89	10.54	35,452 79	9 03
	28,335 42	4.98	29,237 75	10.59	35,769 59	9.11
Cost of stock sold	414,602 81	72.93	201,454 85	72.98	288,243 86	73 38
Sales	568,493 33	100.00	276,036 66	100.00	392,799 53	100.00
Gross profit on sales	153,890 52	27.07	74,581 81	27.02	104,555 67	26.62
Deduct:						
Operating expenses	32,644 61	5.74	19,540 61	7.08	23,493 73	5.98
Discounts	9,773 13	1.72	3,345 88	1.21	5,472 34	1.39
Mail order and delivery expenses	17,995 58	3.16	3,706 45	1.34	17,483 28	4.46
	60,413 32	10.62	26,592 94	9.63	46,449 35	11.83
Net profit	93,477 20	16.45	47,988 87	17.39	58,106 32	14.79

COMPARATIVE STATEMENT OF PERCENTAGE OF SALES, ETC., ATTRIBUTABLE TO EACH DISPENSARY—*Continued*

	$ c.		$ c.		$ c.	
Counter sales	328,566 05	9.59	234,220 23	6.84	184,391 49	5.38
Mail order sales	239,927 28	15.47	41,816 43	2.70	208,408 04	13.44
Cost of stock sold	414,602 81	11.44	201,454 85	5.56	288,243 86	7.95
Gross profit	153,890 52	11.38	74,581 81	5.52	104,555 67	7.73
Operating expenses	32,644 61	11.68	19,540 61	6.99	23,493 73	8.41
Discounts	9,773 13	14.29	3,345 88	4.89	5,472 34	8.00
Mail order shipping	17,995 58	13.22	3,706 45	2.72	17,483 28	12.84
Net profit	93,477 20	10.77	47,988 87	5.53	58,106 32	6.70

ONTARIO GOVERNMENT DISPENSARIES

PROFIT AND LOSS ACCOUNT FOR YEAR ENDING 31ST OCTOBER, 1924—*Continued*

	Dispensary No. 7 Ottawa		Dispensary No. 8 Fort William		Total	
	Amount	Per-centage	Amount	Per-centage	Amount	Per-centage
	$ c.		$ c.		$ c.	
Stock on hand, 1st November, 1923	28,000 78	9.47	29,008 46	14.56	250,624 68	5.04
Stock purchased from Central Warehouse	212,267 05	71.81	142,618 10	71.57	3,617,868 76	72.71
Returns to stock	30 38	.01	5 00	.....	315 03	.....
	240,298 21	81.29	171,631 56	86.13	3,868,808 47	77.75
Deduct:						
Breakage recoverable	78 47	.03	51 40	.03	786 59	.02
Breakage, interior and irrecoverable	44 98	.02	106 94	.05	1,186 73	.02
Stock on hand, 31st October, 1924	25,751 27	8.70	28,422 43	14.26	242,618 01	4.88
	25,874 72	8.75	28,580 77	14.34	244,591 33	4.92
Cost of stock sold	214,423 49	72.54	143,050 79	71.79	3,624,217 14	72.83
Sales	295,596 85	100.00	199,265 49	100.00	4,976,000 50	100.00
Gross profit on sales	81,173 36	27.46	56,214 70	28.21	1,351,783 36	27.17
Deduct:						
Operating expenses	20,680 28	7.00	17,624 55	8.84	279,461 44	5.62
Discounts	3,034 68	1.03	3,248 49	1.63	68,395 70	1.37
Mail order and delivery expenses	9,487 33	3.20	7,672 73	3.85	136,155 49	2.74
	33,202 29	11.23	28,545 77	14.32	484,012 63	9.73
Net profit	47,971 07	16.23	27,668 93	13.89	867,770 73	17.44

COMPARATIVE STATEMENT OF PERCENTAGE OF SALES, ETC., ATTRIBUTABLE TO EACH DISPENSARY—*Continued*

	$ c.		$ c.		$ c.	
Counter sales	173,508 56	5.07	139,996 35	4.09	3,425,257 54	100.00
Mail order sales	122,088 29	7.87	59,269 14	3.83	1,550,742 96	100.00
Cost of stock sold	214,423 49	5.91	143,050 79	3.95	3,624,217 14	100.00
Gross profit	81,173 36	6.01	56,214 70	4.16	1,351,783 36	100.00
Operating expenses	20,680 28	7.40	17,624 55	6.31	279,461 44	100.00
Discounts	3,034 68	4.44	3,248 49	4.75	68,395 70	100.00
Mail order shipping	9,487 33	6.97	7,672 73	5.63	136,155 49	100.00
Net profit	47,971 07	5.53	27,668 93	3.19	867,770 73	100.00

ONTARIO GOVERNMENT DISPENSARIES

Operating Expenses for Year ending 31st October, 1924

	Dispensary No. 1 Toronto		Dispensary No. 2 Toronto		Dispensary No. 3 Hamilton	
	Amount	Per-centage	Amount	Per-centage	Amount	Per-centage
	$ c.		$ c.		$ c.	
Salaries	31,587 02	1.50	10,675 00	2.16	14,446 13	2.27
Executive salaries	.....	.....	.....	.....	.....	.....
Rentals and taxes	556 08	.03	1,500 00	.30	2,848 13	.45
Auditing	.....	.....	.....	.....	.....	.....
Travelling expenses	.....	.....	.....	.....	.....	.....
Money order expense	.....	.....	.....	.....	.07	.....
Insurance	645 19	.03	691 64	.14	1,160 41	.18
Postage	596 57	.03	4 30	.....	320 61	.05
Stationery	1,315 12	.06	257 71	.05	396 74	.06
Telephone	79 51	.....	64 08	.01	131 68	.02
Telegrams	.....	.....	.....	.....	.....	.....
Breakage	470 08	.02	179 42	.03	155 29	.02
Bottling expense	.....	.....	.....	.....	.....	.....
Expense supplies	1,322 23	.06	273 02	.06	488 22	.08
Light, heat and power	270.86	.01	345.44	.07	1,176 16	.18
Repairs and maintenance	425 16	.02	107 53	.02	140 37	.02
Sundries	296 15	.01	49 51	.01	387 42	.06
Freight	.....	.....	.....	.....	.....	.....
Cartage	.....	.....	.....	.....	.....	.....
Truck maintenance	.....	.....	.....	.....	.....	.....
Packing material	.....	.....	.....	.....	.....	.....
Proportion, Chief Censor's Department, expense	8,406 42	.40	1,965 57	.40	2,528 19	.40
Proportion, Central Office expenses	29,723 63	1.41	6,949 90	1.41	8,939 20	1.41
Proportion, Central Warehouse expenses	21,896 75	1.04	5,119 84	1.04	6,585 31	1.04
Total general expenses	97,590 77	4.62	28,182 96	5.70	39,703 93	6.24
Total cash discounts	34,434 36	1.62	1,012 47	.20	8,074 35	1.27
Prepaid freight and express	47,549 57	2.25	.....	.....	11,580 83	1.82
Cartage	.....	.....	.....	.....	.....	.....
Truck maintenance	6,785 78	.32	3,391 18	.69	1,455 24	.23
Packing materials	7,107 08	.34	.....	.....	1,940 44	.31
Total mail order and delivery expenses	61,442 43	2.91	3,391 18	.69	14,976 51	2.36
Total operating expenses	193,467 56	9.15	32,586 61	6.59	62,754 79	9.87

ONTARIO GOVERNMENT DISPENSARIES

OPERATING EXPENSES FOR YEAR ENDING 31ST OCTOBER, 1924—*Continued*

	Dispensary No. 4 London		Dispensary No. 5 Windsor		Dispensary No. 6 Kingston	
	Amount	Per-centage	Amount	Per-centage	Amount	Per-centage
	$ c.		$ c.		$ c.	
Salaries	11,960 08	2.10	7,170 74	2.60	8,660 44	2.20
Executive salaries	.....	.....	.....	.....	.....	.....
Rentals and taxes	1,500 00	.26	2,190 00	.78	1,237 00	.31
Auditing	.....	.....	.....	.....	.....	.....
Travelling expenses	.....	.....	.....	.....	.....	.....
Money order expense	.....	.....	.....	.....	.....	.....
Insurance	1,483 18	.26	955 19	.35	1,085 92	.27
Postage	332 15	.06	130 07	.05	292 64	.07
Stationery	331 92	.06	222 44	.08	234 03	.06
Telephone	110 73	.02	74 28	.03	111 28	.03
Telegrams	6 24	.....	5 89	.....	.....	.....
Breakage	141 44	.03	26 03	.01	32 24	.01
Bottling expense	.....	.....	.....	.....	.....	.....
Expense supplies	259 96	.04	164 25	.06	152 11	.04
Light, heat and power	74 23	.01	163 23	.06	65 80	.02
Repairs and maintenance	81 88	.01	547 21	.19	57 95	.02
Sundries	219 25	.04	52 59	.02	409 95	.10
Freight	.....	.....	.....	.....	.....	.....
Cartage	.....	.....	.....	.....	.....	.....
Truck maintenance	.....	.....	.....	.....	.....	.....
Packing material	.....	.....	.....	.....	.....	.....
Proportion, Chief Censor's Department, expense	2,260 82	.40	1,097 77	.40	1,562 10	.40
Proportion, Central Office expenses	7,993 84	1.41	3,881 50	1.41	5,523 34	1.41
Proportion, Central Warehouse expenses	5,888 89	1.04	2,859 42	1.04	4,068 93	1.04
Total general expenses	32,644 61	5.74	19,540 61	7.08	23,493 73	5.98
Total cash discounts	9,773 13	1.72	3,345 88	1.21	5,472 34	1.39
Prepaid freight and express	14,750 29	2.59	2,221 76	.80	14,586 77	3.71
Cartage	.....	.....	.....	.....	147 45	.04
Truck maintenance	1,010 25	.18	1,039 67	.38	293 67	.08
Packing materials	2,235 04	.39	445 02	.16	2,455 39	.63
Total mail order and delivery expenses	17,995 58	3.16	3,706 45	1.34	17,483 28	4.46
Total operating expenses	60,413 32	10.62	26,592 94	9.63	46,449 35	11 83

ONTARIO GOVERNMENT DISPENSARIES

OPERATING EXPENSES FOR YEAR ENDING 31ST OCTOBER, 1924—*Continued*

	Dispensary No. 7 Ottawa		Dispensary No. 8 Fort William		Chief Censor's Department
	Amount	Per-centage	Amount	Per-centage	Amount
	$ c.		$ c.		$ c.
Salaries	8,537 75	2.89	7,490 78	3.76	14,940 74
Executive salaries					
Rentals and taxes	1,800 00	.61	1,800 00	.90	278 04
Auditing					
Travelling expenses					
Money order expense	.19				
Insurance	1,031 62	.35	1,276 59	.64	37 07
Postage	202 64	.07	162 21	.08	1,673 41
Stationery	238 64	.08	173 98	.09	2,095 10
Telephone	74 86	.02	61 00	.03	82 36
Telegrams	1 97		14 40		
Breakage	44 98	.01	97 77	.05	
Bottling expense					
Expense supplies	133 52	.05	97 90	.05	166 38
Light, heat and power	62 31	.02	193 70	.10	140 97
Repairs and maintenance	31 80	.01	400 48	.20	117 74
Sundries	125 84	.04	197 24	.10	257 05
Freight					
Cartage					
Truck maintenance					
Packing material					
Proportion, Chief Censor's Department expense	1,175 56	.40	792 43	.40	19,788 86
Proportion, Central Office expenses	4,156 55	1.41	2,801 94	1.41	
Proportion, Central Warehouse expenses	3,062 04	1.04	2,064 13	1.04	
Total general expenses	20,680 28	7.00	17,624 55	8.85	
Total cash discounts	3,034 68	1.02	3,248 49	1.63	
Prepaid freight and express	6,973 27	2.36	4,970 56	2.50	
Cartage			22 75	.01	
Truck maintenance	1,260 68	.43	1,738 39	.87	
Packing materials	1,253 38	.42	941 03	.47	
Total mail order and delivery expenses	9,487 33	3.21	7,672 73	3.85	
Total operating expenses	33,202 29	11.23	28,545 77	14 33	

ONTARIO GOVERNMENT DISPENSARIES

OPERATING EXPENSES FOR YEAR ENDING 31ST OCTOBER, 1924—*Continued*

	Central Warehouse	Central Office	Total	
	Amount	Amount	Amount	Percentage
	$ c.	$ c.	$ c.	
Salaries	17,817 65	45,140 68	178,427 02	3.58
Executive salaries		10,550 00	10,550 00	.21
Rentals and taxes	5,313 16	906 08	19,928 49	.40
Auditing		4,000 00	4,000 00	.08
Travelling expenses		3,676 59	3,676 59	.07
Money order expense			.26	
Insurance	4,549 28	949 05	13,865 14	.28
Postage		736 71	4,451 31	.09
Stationery	285 18	1,439 18	6,990 04	.14
Telephone	97 68	408.90	1,296 36	.03
Telegrams		117 75	146 25	
Breakage	622 89		1,770 14	.04
Bottling expense	420 08		420 08	.01
Expense supplies	373 45	352 57	3,784 61	.08
Light, heat and power	1,452 46	315 30	4,259 46	.09
Repairs and maintenance	4,122 09	436 62	6,468 83	.12
Sundries	913 69	940 47	3,849 16	.08
Freight	12,332 74		12,332 74	.26
Cartage	92 90		92 90	
Truck maintenance	3,046 64		3,046 64	.06
Packing material	105 42		105 42	
Proportion, Chief Censor's Department expense				
Proportion, Central Office expenses		69,969 90		
Proportion, Central Warehouse expenses	51,545 31			
Total general expenses			279,461 44	5.62
Total cash discounts			68,395 70	1.37
Prepaid freight and express			102,633 05	2.06
Cartage			170 20	
Truck maintenance			16,974 86	.34
Packing materials			16,377 38	.34
Total mail order and delivery expenses			136,155 49	2.74
Total operating expenses			484,012 63	9.73

Schedule No. 3

ONTARIO GOVERNMENT DISPENSARIES

NET PROFIT AND LOSS ACCOUNT FOR YEAR ENDING 31st OCTOBER, 1924

			Percentage to Total Sales
Cost of stock sold at Dispensaries (Schedule 1)	$3,624,217 14		
Cost of stock sold to hospitals	37,277 24		
Cost of alcohol sold	$59,776 05		
Less:			
Duty recoverable by hospitals (per contra)	52,658 23		
	7,117 82		
		$3,668,612 20	72.95
Operating Expenses (Schedule 1)	$279,461 44		
Discounts (Schedule 1)	68,395 70		
Mail Order Expense (Schedule 1)	136,155 49		
		484,012 63	9.63
Machinery, Equipment and furniture—balance written off		5,251 27	.10
Cost of alterations to new leasehold premises at Kingston		1,481 36	.03
Net Profit		877,294 29	17.45
		$5,036,651 75	100.16

			Percentage to Total Sales
Sales at Dispensaries (Schedule 1)	$4,976,000 50		
" to hospitals, etc.	43,269 32		
" of alcohol to hospitals	$62,135 44		
Less:			
Duty recoverable by hospitals (per contra)	52,658 23		
	9,477 21		
		$5,028,747 03	100.
Sundry Receipts:			
Sales of empties, scrap, etc.	$1,993 58		
Cash overages	11 74		
Interest on Bank balances	5,830 65		
Miscellaneous receipts	68 75		
		7,904 72	.16
		$5,036,651 75	100.16

Schedule No. 4

ONTARIO GOVERNMENT DISPENSARIES

SUMMARY OF CENTRAL WAREHOUSE STOCK ACCOUNT FOR YEAR ENDING 31st OCTOBER, 1924

Stock on hand, 1st November, 1923		$511,540 62
Purchases		1,616,015 26
Duty		2,153,904 56
Freight Inwards and Marine Insurance		81,049 30
Cost of Bottling Liquor		12,160 46
		$4,374,670 20
Less:		
Claims and breakages		14,268 08
		$4,360,402 12
Cost of Shipments to Dispensaries:		
Dispensary No. 1, Toronto	$1,530,824 51	
" 2, Toronto	366,817 74	
" 3, Hamilton	462,313 07	
" 4, London	403,410 40	
" 5, Windsor	208,196 34	
" 6, Kingston	291,421 55	
" 7, Ottawa	212,267 05	
" 8, Fort William	142,618 10	
		$3,617,868 76
Cost of Sales to Hospitals and other Institutions		97,053 39
Stock on hand 31st October, 1924		645,479 97
		$4,360,402 12

Ontario Department of Agriculture

REPORT

OF THE

Minister of Agriculture

Province of Ontario

FOR THE YEAR ENDING OCTOBER 31, 1924

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

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REPORT

OF THE

MINISTER OF AGRICULTURE

1924

To His Honour COLONEL HENRY COCKSHUTT,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I have the honour to submit the Annual Report of this Department for the fiscal year ending October 31st, 1924.

One of the most important developments of the year in the work of the Department was the termination of the Federal grant for agricultural instruction. In view of the importance of this matter it may be of interest to record the full circumstances. In 1912 on the recommendation of the Hon. Martin Burrell, the House of Commons passed an Act setting aside $10,000,000 for agricultural instruction to be expended through provincial organizations over a period of ten years. The sum of $700,000 was apportioned the first year and the amount then increased so that $1,100,000 was apportioned the last few years of the term. This was divided practically on a basis of population and the Province of Ontario received an annual amount going up to $336,303.26. This money was utilized in the work of the Department, particularly in establishing and maintaining the Kemptville Agricultural School, in developing the agricultural representative service and in other important activities. When the date of the termination of the legislation was approaching, the matter was brought to the attention of the Federal Government. This was of course before I assumed office, but I speak from the records of the Department. Early in 1922 the Federal Government announced the appointment of a Commissioner to investigate the workings of the legislation preparatory to renewing the Act and appropriations. In the House of Commons on April 3rd, 1922, the Minister of Agriculture for Canada made the following statement on the subject as recorded in Hansard, page 646:

"We are contemplating bringing down legislation; but before doing so, we shall have the special report stating how this legislation can be improved or extended, or whether it should be left just the way it is."

Later, on April 20th, 1922, the Minister of Agriculture made a further statement on the matter in the House of Commons in which he said:

"In view of the prospects of an early session next year, it may not be necessary to take action this session, but we would like to have the Act re-enacted this session with such amendments as may be found necessary, so that the provinces will know authoritatively that they can plan their work on the assumption that this work is going to be continued. I hope to be able to have the act re-enacted this session."

With these official assurances the provinces naturally expected a continuation of this legislation. It was therefore with very much surprise that I learned soon after taking up the work that the Federal Government contemplated discontinuing this assistance to agriculture. Every possible effort was made to impress the Federal Government with the importance of this work both on behalf of Ontario and the other provinces. On January 25th, 1924, however, official notification was received from the Federal Minister of Agriculture that this assistance was permanently terminated. Thus, at a time when the governments of other countries, including the very tax-burdened country of Great Britain, were increasing their assistance to the agricultural industry, the Federal Government radically reduced its assistance and left the provinces with the responsibility of disbanding or financing the machinery and organization which had been built up during the preceding ten years. As far as Ontario was concerned it was felt that the work could not be discontinued without serious disadvantage and the Government of Ontario assumed the additional financial obligations which the Federal Government had previously discharged.

VISIT TO GREAT BRITAIN

Along with a statement of the work of the different branches of this Department, I beg to submit a few observations made in the course of a visit to Great Britain and Denmark.

While in Great Britain I acted as Special Commissioner for the Province at the Wembley Exhibition, and devoted considerable time to this work. This exhibition impressed me as one of the finest presentations of the resources of the Empire which could be devised. We are sometimes liable to overlook the fact that there are fifty-seven different countries in the Empire and the bringing together of something of the life of the people or the resources of the country of each section presented a very wonderful and varied picture. The Dominion of Canada was represented by one building which included specimens of crops and other resources of the different provinces of Canada. There were no separate exhibits by individual provinces. I was very much impressed, however, by the keen interest which was shown in the Province of Ontario and the eagerness with which hundreds of people sought information about Ontario and its resources, agriculturally, minerally, and as a place of investment, was decidedly encouraging. Our efforts were directed to meeting the people and supplying the information desired and this seemed to be very much appreciated.

As to conditions generally in Great Britain, I was particularly concerned in making a survey from the standpoint of emigration. Although there were many evidences of prosperity and the spirit of the people was wonderfully determined and buoyant, it was still apparent that unemployment was very large and taxation bore very heavily on all classes. The British authorities were very keenly interested in the matter of emigration within the Empire. I had the pleasure of discussing the matter with the leaders of the three political parties as well as with many other prominent statesmen and officials. The great problem in emigration is in the selection of the individuals so as to get the type most suitable for the conditions which will be met in the new country. Our organization endeavours to confine its activities to men who have had some agricultural experience. The breaking up of large estates as a result of taxation has had the effect of creating larger opportunities for ownership and these opportunities at home naturally attract many who might otherwise seek similar opportunities abroad. On the other hand the unemployed, many of whom would be glad to emigrate, too often have little or no agricultural experience. It is

therefore necessary to exercise great care in the selection of the men so that those who are assisted to this Province may be of the type and character that will make good under our conditions. I was also impressed with the opportunities for developing boy emigration to this Province. There are thousands of bright boys with some rural training and with considerable adaptability who would be glad to apprentice themselves on farms in this Province and who would no doubt develop into good farmers and excellent citizens.

Considerable time and attention was also devoted to the possible opportunities for developing further trade in Great Britain in the products produced in this Province. As is well known, Great Britain imports about fifty-four per cent. of her dairy produce, sixty per cent. of meat and seventy per cent. of wheat and flour as well as large quantities of fruit. I found a strong sentiment in favour of securing these products from within the Empire in so far as it could be done with fairness to price and quality, and I came to the conclusion that further careful study of this matter on behalf of the Province of Ontario would be fully justified. There is no doubt that the Province of Ontario has the capacity to produce goods of the necessary quality, but it is essential that these products be placed on the British market in large quantities of uniform quality at regular intervals.

VISIT TO DENMARK

As Commissioner for the Province, I also spent a short time investigating the conditions in Denmark which has so much attracted the attention of the world from the agricultural standpoint. Before going to Denmark I was honoured with an invitation to spend a week-end with Sir Rider Hagard, the prominent author, who had made a close study of agricultural problems and who wrote a book on Danish organization some few years ago. I found Sir Rider a most charming and marvellously well informed personality, and I was fortunate in having the benefit of his experience as a ground work for personal observations. Denmark, as is well known, is entirely a rural state and agriculture is not only the basic but almost the only industry. Years ago, agriculture was not prosperous, which means that the state was not prosperous. Then the people turned to serious consideration of how conditions could be improved, and as a consequence reorganized her whole agricultural system. It was decided to devote major attention to three products, butter, bacon and eggs, all of which are required by the nearby British market. It was decided to develop the marketing of these products on co-operative lines, and I found that to-day there are 1,360 co-operative creameries handling eighty-five per cent. of the milk production of the state and representing a membership of 200,000. As an illustration of the thoroughness with which the dairy organizations are carried out, the following points may be of interest:

Members are signed up under a binding contract to deliver all of their milk, except for household purposes, to their co-operative associations for periods of from ten to twenty years.

Each dairyman is required by contract to deliver every day, either to the association or its milk collecting agencies, a product that is sweet and in good condition.

Over half of all the dairy cows in Denmark are in cow testing associations.

No dairy association can export butter unless it comes up to the standard of the "Lur" brand and unless the association has received authorization from the Department of Agriculture.

No person is employed as manager of a dairy association or as buttermaker unless he had had five years' practical experience.

Each manager of a dairy association or butter maker is required by contract to make a certain standard, grade, or score of butter for the entire year. On all of the butter that scores over the required standard the employee receives a bonus. But if he fails to make the required score he stands the loss out of his wages.

There are also forty-six bacon factories which handle eighty-five per cent. of the hogs of the country and there is a large egg export association. In a visit to one of the bacon factories, I learned some of the secrets of Danish success. The factory was very clean and sanitary, so much so that the house of the manager was located right close to it. The plant was very well equipped and had cost over half a million dollars. It was owned entirely by the farmers. The very greatest care was taken to turn out a fine, even, uniform product. No stale or second-grade bacon was allowed to be shipped out of the country and, if there was any of this quality, it was always used at home. There were about 500 hogs per day slaughtered in this one plant. I was told and could readily believe that the other forty-five plants were very much the same. Care in providing a uniform product of high quality and of exporting nothing but the best have been the factors which, coupled with a location near the market, have established the Danish bacon industry until about one-half of the bacon used in Great Britain is bought from Denmark and Denmark is assured of getting the highest prevailing price at all times.

In regard to eggs, I found that the Danish Egg Exporting Society started in a small way about 1895 and formed small Egg Circles throughout Denmark. Here again the greatest care was exercised to see that only first-class eggs were exported. On each egg is the mark of the small society from which it is collected and also the number of the member of that society. If at your breakfast in London, you get an egg which is objectionable in any way, it is quite possible to trace it back to the farm from which it came. The producer is fined about $1.25 for the first offence and the next time the penalty is double and the third time he may be expelled from the exporting organization. In this way, Denmark has built up a wonderful market for eggs in Great Britain, which imports about forty-two per cent. of its supply from that country.

This system of marketing has also had its reflex influence on production. It of course means the standardization of production. As an illustration, Denmark concentrates on one breed of hogs which is somewhat of the same type as the Yorkshire hog in this country. In Great Britain, for instance, I found about twenty breeds of hogs and in Denmark only one. Hence, Denmark is able to supply large quantities of absolutely uniform quality in these products and this has had its effect in building up the reputation which gives Danish products a most substantial financial prominence as well as sentimental prominence on the British market. This has become the dominant idea in Danish life and practice and it is woven through their educational system in all its parts. It impresses me as a fine illustration of what can be accomplished by a people who have not been exceptionally blessed by nature in their natural resources, but who direct intelligence and industry along proper lines.

Following is a statement of the work of the Department for the year under the various branches under which it is organized.

All of which is respectfully submitted.

JOHN S. MARTIN,
Minister of Agriculture.

ONTARIO AGRICULTURAL COLLEGE

The following are the figures of attendance in each course held throughout the year:—

(Figures for general courses include students of winter term and new students of fall term.)

General Course	327	
Specialists in General Course Work	8	
Dairy Courses	153	
Stock and Seed Judging	60	
Poultry Raising	37	
Milling and Baking	21	
Horticulture	54	
Apiculture	50	
Drainage and Drainage Surveying	6	
Farm Power	45	
		761
Domestic Science (at Macdonald Institute)		463
Summer Courses: High School Teachers—1st year, 12; 2nd year, 15	27	
Public School Teachers—1st year, 42; 2nd year, 49	91	
School for Rural Leadership	97	
		215
Total		1,439

FIELD HUSBANDRY DEPARTMENT

As in each of the past thirty-nine years, the Field Husbandry Department co-operated with farmers throughout the Province, organized through the Ontario Experimental Union, in testing out various varieties of cereal and root crops. The past year saw a revival of interest in this work. There were 485 more experiments than in the year previous and 578 more than three years ago. Altogether 2,194 separate tests were conducted on various farms throughout the Province. The following table gives a summary of results in so far as varieties of grain crops are concerned:

Experiment and Varieties	Yield per acre Straw (tons)	Grain (bush.)
Oats:		
O.A.C. No. 144	1.43	55.35
O.A.C. No. 72	1.36	51.83
O.A.C. No. 3	1.05	45.08
Liberty Hulless	1.29	37.59
Barley and Emmer:		
O.A.C. No. 21 barley	1.22	48.43
Common Emmer	.99	35.22
Hulless Barley:		
Guy Mayle	2.17	24.87
Black Hulless	2.01	23.44
Spring Wheat:		
O.A.C. No. 85	1.81	31.07
Wild Goose	1.85	26.27
Marquis	1.66	24.33
Winter Wheat:		
O.A.C. No. 104	2.14	31.12
Dawson's Golden Chaff No. 61	2.00	30.60
Kharkov	2.16	30.50
Imperial Amber No. 92	2.07	27.75
Yaroslaf	2.05	24.58
Rye and Wheat:		
Winter rye	2.22	43.93
Winter wheat	1.54	32.67

Experiment and Varieties	Yield per acre Straw (tons)	Grain (bush.)
Buckwheat:		
Silver Hull	2.54	28.55
Rough	1.65	21.88
Field Peas:		
Potter	1.58	24.76
O.A.C. No. 181	1.35	23.98
New Canadian Beauty	1.69	23.60
Early Britain	1.33	21.90
Field Beans:		
Michigan No. 630425	.53	27.07
Pearce's Improved Tree	.71	23.92
American Wonder	.78	23.79
Soy Beans:		
O.A.C. No. 211	1.37	20.51
O.A.C. No. 111	1.15	15.84
Brown	.96	13.33

This work has been of immense value to the Province in improving the varieties of grain used in general farm practice. Experiments were also conducted with roots, with the application of fertilizer, and with northern and southern grown seed in potato production. The latter experiment showed a yield of 190 bushels per acre from northern grown seed as compared to 180.8 from southern Ontario seed. Detailed information in regard to all these experiments as well as experiments in weed eradication is contained in the Annual Report of the Experimental Union.

ANIMAL HUSBANDRY AND FARM DEPARTMENT

The results on the farm for the past season were very satisfactory—crop yields being reasonably good. Live stock work was also carried on with excellent results.

In regard to horses, experimental work was confined to cost of winter maintenance of farm horses and interesting figures will be compiled on this subject covering a number of years' experience.

Beef Cattle.—Beef cattle are still a strong feature of our College work. The Shorthorn herd is being maintained at the usual high standard. A junior herd sire was purchased last June, viz., Gartly Newman, to assist and, if successful, follow Browndale Banner. All females sired by the latter bull are being retained as breeders. A purchase of six Hereford females of the best blood lines has materially strengthened the Hereford herd. No purchases of Aberdeen Angus were made, but it is the intention to add a few head to this good herd.

The steer feeding experiment previously outlined was completed and a new one started. At the present time a group of grade calves are being run on a cost of production basis in an effort to produce baby beef on skim milk. They will be marketed next Easter and results available.

The herd of females has passed a clean test for tuberculosis.

Dairy Cattle.—The herds of dairy cattle have been built up by rather extensive purchases and all have proven free from tuberculosis so that some good work may now be done in production of both milk and breeding stock. Experimental work has been carried forward in costs of winter production of milk, costs of raising dairy heifers, and now we are working to see if there is any cor-

relation between conformation and performances. Several feeding tests are being carried out and it is hoped to compile all the results in a bulletin before spring.

A new herd sire for the Holstein herd will be purchased and a few more females added.

The Jersey herd is the strongest the College has had and the Ayrshires are in numbers and quality away above the average.

Sheep.—The sheep flock has been entirely changed during the year. No new blood had been introduced with the Leicester flock for twenty years and the Shropshires had been on the ground for a long time. Believing that sheep do better with a change, these flocks were sold out and new flocks are being put in. It is planned to continue breeding Shropshires and Leicesters and maintaining for classroom Cotswolds, Lincolns, Hampshires, Oxfords, Southdowns and Dorsets.

Further work in production and maintenance costs was carried on during the winter and a complete compilation will be ready very soon showing feed and labour costs in the flock for several years.

Swine.—The College herds of swine have been maintained at a high level during the year and much experimental work has been carried forward. Further figures on cost of maintenance of brood sows, cost of maintenance of breeding boars, comparative economy of gains in different breeds and a comparison of tankage and skim milk in feeding are now available. A new project has been started, viz., to ascertain the economy of gains in indoor and outdoor winter feeding and to find out whether there is any direct relationship between conformation and economy of gains through complete measurements of all hogs used in the experiment inside and out.

Annual Live Stock Sale

The annual sale of surplus stock was held in the pavilion on Thursday, October 30th, and was a great success. The largest crowd (over 1,000 people) that ever attended the College sale secured some good breeding stock at prices evidently satisfactory to all concerned. The following is a summary of the sale:

6 Shorthorn bull calves	$1,290 00	
3 Shorthorn females	480 00	
3 Fat cattle	280 25	
Total for beef cattle		$2,050 25
5 Holstein females	540 00	
5 Holstein bull calves	260 00	
5 Ayrshire females	440 00	
3 Ayrshire bull calves	140 00	
1 Jersey female	165 00	
2 Jersey bull calves	205 00	
Total for dairy cattle		1,750 00
1 Ram and 4 ram lambs	132 50	
38 Ewes and ewe lambs	807 50	
16 Fat lambs	155 00	
Total for sheep		1,095 00
56 Yorkshire pigs	1,727 50	
17 Tamworth pigs	530 00	
17 Berkshire pigs	315 00	
Total for hogs		2,572 50
Grand Total		$7,467 75

This sale brought over $2,000 more than the sale the previous year and while a few bargains were procured, particularly Ayrshires and Shorthorn females, the results were very satisfactory. There seems to be no better method of distributing surplus stock than at public auction.

POULTRY DEPARTMENT

Each year the farmers are taking more interest in their poultry and many are adding to the number kept. During the year the general prices of eggs and poultry have been very good, as compared to other farm products.

There is some inclination for farmers to keep poultry in a large way, and moreover a few would, with very little encouragement, make poultry the major part of their farm activities. It would be better, on the average, if people increased their flocks gradually each year and learned to meet the hazards of the business as they went along, rather than to increase the flock in one year from say one hundred laying hens to one thousand laying hens. During the year there was an increasing demand for information in regard to diseases and parasites. The two common sources of the spread of disease are the drinking water and the soil. Where the hen manure is placed in the barnyard, or in other places where the birds can scratch it over; or where there is barnyard water, that the birds can drink, disease occurs frequently. Many people are careless in regard to the two points mentioned above. Internal parasites are fairly sure to give trouble if the young chickens are reared year after year on the same ground. It is an old saying that the land becomes "Poultry Sick." A rotation of crops is desirable.

The Poultry Department is trying the rearing of chickens on the ground on alternate years, that is, one year the chickens range the field of grass and cultivated crops, such as corn, and the second year no poultry is on the field, but the field is cropped in the ordinary manner. It is hoped by this method and reasonable cultivation that chickens may be reared with success for a considerable time.

The day-old chick business is growing rapidly. Many chicks are imported, and our incubator operators complain of the competition. Eggs in Ontario are not hatching satisfactorily, especially early in the season. This is especially true where the birds have laid well during the winter. It is necessary that some methods be found that are economically sound for the production of hatching eggs.

The early hatches of 1924 were very bad, possibly due to the lack of sunshine, a lack of green feed and heavy winter egg production. When the birds get out of doors and plenty of green feed, the hatches were very good, but the chicks were late.

The Department has been experimenting with feed, etc., and have not as yet found anything that is reasonably certain in results.

Breeding hens gave good hatching eggs when they were removed from the hen house in October and placed on free range where there was an abundance of green feed of grass and rape. They were fed whole grain, no mash, and given water to drink. The birds moulted quickly, and as was expected egg production was completely stopped. These birds when placed in breeding pens in January gave excellent hatching eggs during the season. Birds with a ration in which there was plenty of clover leaves, some canned tomatoes and raw liver, gave fair hatching eggs, but they were not constant, and, therefore, are not entirely

dependable. There is now under way a series of experiments with sixteen pens on as many rations, in the hopes that some one may produce hatching eggs of reasonable value.

The past year was interesting in that there were at least two families of birds that had been bred, for a number of years, for the high hatching power of their eggs, which gave very satisfactory results. It might be well here to mention that breeding, feeding and direct sunlight into the pens, are important factors in producing hatching eggs.

The crop of chickens for the year was as good, if not better, than in any year. The birds grew well, and have laid a reasonable number of eggs to date.

The work in breeding for the past year or two has been in an endeavour to increase the size of bird, and the size of eggs, as well as some improvement in the type and colour. It was expected there would be no increase in numbers of eggs, and in general there has been a slight decrease, but no more than was expected.

Two men were employed nearly all their time at short courses, live stock train, shows, judging schools and demonstrations, and seven additional men were used for most of the summer. There is a demand for work in the field, and the co-operation of the agricultural representatives in each county had been splendid. So far as possible we have endeavoured to meet the demand of the representatives. There are a few people, widely scattered, who have sent requests for work as individuals, that we were unable to supply their needs. This work is expensive, and if organized county by county can be taken care of at reasonable cost.

There were five hundred and twelve culling demonstrations in the field, and more than 64,000 birds handled; of these about 21,000 were considered to be no longer profitable to keep. About four thousand people attended, and took part in the culling of the birds.

The breeding stations were again carefully inspected and culled. A few each year do not meet the standard required and are closed, and a few new ones added. These stations required 868 males for breeding purposes, which is no small task in itself to raise and breed each year.

A new undertaking this year was the introduction of a school for poultry judges. This was done in connection with the meetings of the Confederation of Local Poultry Associations. It is well worth while for the poultry judges to get together and discuss the judges' ideals and problems.

THE SOIL SURVEY

During the season of 1924, the work of the soil survey has been carried on in the Niagara fruit belt. A detailed soil map constructed on a scale of one inch to one mile has been completed. It includes the land lying between the Niagara escarpment and Lake Ontario, from the Niagara River to Hamilton.

The soils in this area vary greatly in their characteristics and crop adaptions; they range in texture from fine sandy loams to the heaviest clays. A feature of the survey that is expecially interesting is that distinct correlations between soil type and crop adaption can be made. Profitable peach growing is limited to a very few distinct types of soil, and the percentage of land in the surveyed area is well adapted to peach orchards is small indeed.

One hundred and forty soil samples representative of the soils as mapped on the survey, have been taken for laboratory examination. As soon as these analyses have been made and a complete report of the field work prepared, a bulletin will be published on this area.

Frequent inquiries are received for information concerning the soils, of the Province. Banking institutions have shown a desire to obtain data from detailed surveys for use in the valuation of farm property in connection with loans, mortgages, etc. Other organizations have drawn upon the Soil Survey for information to be used in colonization, and the settling of lands at present not utilized. Those familiar with the nature of the Soil Survey and its object have seen in it possibilities afforded only by a survey of this kind, and the need for further surveys is consequently quite apparent.

Soil Fertility Experiments.—The work on the three permanent demonstrations or experimental plots has been continued, but a change has been made in the arrangement of crops on the plots of this farm, substituting turnips for mangels, leaving the rest of the rotation as it was. The results secured so far clearly demonstrate the fact that nitrate of soda is the best source of nitrogen at present available for mangels. The results also show that phosphoric acid gives good paying returns.

The effect of acid phosphate was very clearly shown on the Welland plots this year. The plots all indicated that acid phosphate gave little or no better results than the raw rock phosphate. On the Dunkirk sands of Norfolk County we find the opposite to be true, *i.e.*, raw rock phosphate gives as good results as acid phosphate. This is being repeated year after year and it is one point that we want to study more fully by carrying on co-operation work with the farmers of the district. Phosphoric acid is one of the limiting factors in crop production on these light soils, and it is important that we ascertain the cheapest form in which it may be supplied. These more or less permanent experimental plots are giving us some very possible results which will be carried to the farmers in the form of co-operative experiments.

Lime Phosphate Experiments.—These experiments were planned to see the effect of lime and acid phosphate on wheat and the succeeding crop of clover. Each experiment consisted of four one-half acre plots. The experiment was started in the fall of 1922 when three experiments were laid down in each of the following eight counties—Haldimand, Norfolk, Wentworth, Brant, Lincoln, Halton, Elgin, and Welland. The fertilizers and lime were applied immediately before seeding the ground with wheat. It was not expected that lime would influence the crop of wheat, but it was applied to see its influence on the clover following the wheat. When the wheat was harvested in 1923 it was found that on the plots receiving lime and acid phosphate the yield was fifty-four per cent. greater than on the check plots.

In the fall of 1923, three experiments were laid down in each of eight other counties, extending west and east of the original eight. This summer we found that the lime and phosphate plots yielded nearly forty-five per cent. more than the check plots, enough to pay for the fertilizers and leave a large profit for the farmer.

This past season the clover on the plots started in the fall of 1922 was harvested. The yield of clover on the lime plots was increased by forty per cent., and on the lime and phosphate plots by sixty per cent. over the check plots. Naturally there is only the one crop of clover harvested as yet. The soil of the plots in these sixteen counties all showed a lime requirement. This autumn an experiment was started on three farms in still another eight counties, this time principally in the northern counties, and as the soils on the farms selected showed no lime requirement, the lime plot was not included in the experiment.

The results to date on the lime phosphate experiments are very interesting and show that without doubt lime may be applied with profit for clover and that acid phosphate may be used with profit on wheat.

Triangle Experiment.—This is the name applied to the form of experiments that have been used to ascertain the needs of certain soils for certain crops. The plots are not triangle but the name refers to the arrangement of the quantities of the three fertilizer constituents which are used on the different plots. The experiment as conducted called for twenty-one plots giving twenty-one different arrangements of the three fertilizer constitutents. One of the most important points that was demonstrated by means of these plots throughout the season of 1922 and 1923 was that where clover was ploughed down and some manure used in preparing ground for potatoes, no increase in yield was got from added nitrogen. Phosphoric acid in the form of acid phosphate always has a decided influence on the yield. The results of the first two years' experimental work all point to the fact that a fertilizer mixture of the 0-12-4 type was most likely to give the best yield of potatoes and the largest profit.

This past season there were fifteen of these experiments, six of them at Ridgetown, two at Mount Brydges, and five at Hillsburg, and two at Mount Albert. This year a little nitrogen in the fertilizer mixture gave paying results. This was probably due to the wet season which kept the ground cold and delayed nitrification, thus making the added nitrogen especially useful. The results of the three years' experiments brings out very clearly the possibility of growing sufficient nitrogen in to the ground to make the use of added nitrogen unnecessary for the potato crop in most seasons. It has also been shown that acid phosphate is essential for economical returns.

Triangle experiments were also carried out on six different farms in the neighbourhood of Ridgetown with the bean crop. There are two years' results for such experiments, but the seasons were so totally different that naturally the results are not conclusive.

One triangle experiment was carried out with sugar beets in the season of 1923 and five this season. The Dominion Sugar Company co-operated in determining the sugar in the beets grown. The seasons were so different, one dry and the other wet, that the results are contradictory regarding which mixture will give the best paying results, but all the plots demonstrated the fact that certain mixtures will increase the yield of beets and sugar at a profit to the farmer.

One triangle experiment with onions on the marsh at Cedar Springs and one with celery on the Thedford marsh were conducted this past season. These experiments were carried out in co-operation with the Department of Horticulture. Some interesting results were obtained which will help plan work for another year. Naturally no definite conclusions could be reached as the result of one year's experimental work.

DAIRY CHEMISTRY

Among the variety of samples analyzed was a liquid received through an agricultural representative, which was being supplied to farmers for treating raw cream, with the object of preserving such cream until it reached the creamery or other manufacturing plant. A patent was claimed for the use of this liquid by its originator. No good purpose would be served by divulging the chemical nature of this liquid at the present time, except to say that it was very undesirable and constituted a clear and flagrant act of adulteration. Fortunately, since it

became known to the patentee that this substance was under examination by this department, no further cases of its use have been reported. The practice of adding foreign chemical substances to milk or its products in order to preserve or attempt to rectify a partially decomposed raw product cannot be too strongly condemned. Any such treatments cannot help but have a detrimental effect on the complex delicate biochemical and vitamin content of milk or cream.

Use of Neutralizers in Butter-Making.—Of the many samples of inferior butter received for examination most of the defects can be traced to an inferior raw product or chemical treatment of cream, such as the so-called process of "neutralization." Reports received from dairy inspectors are to the effect that in many creameries the process of "neutralization" is carried out in a haphazard manner without any knowledge of the chemistry underlying such treatment or even the application of the acidmeter test. Frequently samples of butter are received which have an alkaline reaction through over-neutralization. Such procedure can only lead to confusion and endless trouble. A large percentage of the second and off grade butters have a distinct "neutralized" or other objectionable flavour brought about by the use of neutralizers. Should the practice of "neutralization" be continued, it should only be carried out with a knowledge of the chemical principles involved and the correct application of the acidmeter test.

Butter Colours.—In making an investigation of several brands of butter colour received for examination, it was found that some butter colours made from aniline dyes and now in use react with formaldehyde producing a dark orange or reddish colour. This probably provides an explanation for some samples of butter turning dark colour when placed in wrappers treated in formalin solution for the purpose of destroying mould spores. The practice of treating butter wrappers with strong brine solution as advocated by the O.A.C. Bacteriology Department for the destruction of mould spores is preferable to the formaldehyde treatment.

Butter Wrappers.—Surface defects in butter have again during the past season been suspected as being due to the printed matter and quality of butter wrappers. Our examinations go to show that the quality of butter wrappers made in Ontario is very good and that the chemical nature of such is harmless to butter. Regarding the printed matter on butter wrappers, blue inks are the most reliable and the use of red, brown, yellow, and other coloured inks should be discarded.

Application of the Storch Test in Grading Butter.—The Storch test has now been used for about five years at the grading station to distinguish butter made from pasteurized and unpasteurized cream. Recently one or two cases have been reported where butter known to be made from unpasteurized cream were found to give a negative result by the Storch test, or an indication of being pasteurized. Work is being carried on to discover an explanation of this phenomenon, and also to find out if the use of neutralizers and preservatives would in any way interfere with the correctness of the Storch test for distinguishing pasteurized from unpasteurized butter.

Substitutes for the Babcock Test.—During the past two years several tests for the determination of fat in dairy products have been advocated in competition with the Babcock test. Investigations here show that these tests are no better and, in many cases, not so good as the Babcock test. The "Official Babcock Test" has recently been revised, and information concerning the

Babcock test as used throughout Canada has been collected by this department and made available to the revising committee of the Association of Official Agricultural Chemists and the American Dairy Science Association.

DEPARTMENT OF ENTOMOLOGY

Investigation work was limited to—the European corn borer, the striped cucumber beetle, and lubricating oil emulsions.

The European Corn Borer.—Investigation of this insect this year took the form of—(1) A study in Elgin County of the different methods practised by farmers dealing with the remnants of the corn crop and with the corn stubble. The object of this was to discover by personal supervision and by discussion with farmers, the best practical way of cleaning up or disposing of all corn remnants, of plowing under the stubble and debris in the corn field, and of overcoming the danger of dragging these up later when cultivating. Much useful information on these points was secured in the spring in Elgin. This has been supplemented this fall in Essex and Kent counties by interviews with leading farmers and observations made in the field.

(2) Burial experiments were conducted in which approximately 1,800 borers in stubble and stalks were covered by the plow to a depth of five to six inches and then the soil cultivated and treated in a similar manner to what would happen on an ordinary farm. The result, as determined by cages placed over the plowed area, showed that all the borers perished, not a single moth having been taken in any cage. This and similar burial experiments conducted by others justify recommending plowing as one of the great factors in control.

(3) A series of experiments was carried out to test what percentage of the borers perished while still very small, that is, within a few days after hatching from the eggs. In these experiments 8,100 eggs were used. It was found that an average of a little more than seventy-five per cent. of the borers perished. Further work of this kind will prove very valuable in determining the effect of moisture, temperature and sunlight not only on the borers themselves but also on the moths, and enable a much more accurate estimate of the rate of increase and damage likely to take place in a normal year.

The Striped Cucumber Beetle. Previous work on this insect was continued this year.

Lubricating Oil Emulsions. During the last few years lubricating oil emulsions have been gradually superseding the lime sulphur wash in parts of the United States as a spray for San José scale. These emulsions are cheaper than lime sulphur and have usually been more effective in the hands of the average man in destroying the scale. Lately it has been shown that they can be combined with Bordeaux mixture and in this way we have a combined insecticide and fungicide, just as we have had for many years in the lime sulphur wash. This spring a scale infested apple orchard at Fonthill was selected and emulsions made according to various methods, both with and without Bordeaux, were tested. The spraying was done in co-operation with Mr. W. A. Ross of Vineland Station. The season, however, was very unfavourable to the development of the scale and this made it difficult to draw definite conclusions as to the merits of these emulsions in comparision with lime sulphur.

Supervision of Spraying. Owing to the great revival of interest in spraying and the importance of the spraying being well done if the growers were to be prevented from discouragement and pessimism, it was felt that the proper course

to pursue this year was to drop for the time being further investigations on spray mixtures, other than those just mentioned in regard to the lubricating oil emulsions, and to devote as much time as possible to personal supervision of spraying in orchards. A further reference to this will be found in the Fruit Branch report.

DEPARTMENT OF HORTICULTURE

Progress is reported in the many-sided activities of the Department of Horticulture.

The campus has received a good deal of attention and new plantings have been made of the choicest varieties of roses, peonies and irises. New perennials have also been placed in the perennial border including tritomas, trollius, buddleia, etc. The gladiolus plots have been developed and the campus as a whole has presented a very attractive appearance. The Gladiolus Society holds its summer show at the College and this has attracted a good deal of attention to this popular flower as well as to the work of the College in floriculture. With the limited facilities available, some useful work has also been done in greenhouse production.

In the Pomological Branch the planting of small fruits, raspberries, strawberries, blackberries, grapes, currants and gooseberries has been built up to include the more important of the older varieties and the most promising of the new. All of these and the orchards are handled according to the best commercial practice as far as circumstances will allow.

The orchards consist of ten acres occupied by the variety collection; two and one-half acres, ten-year old trees of three fall varieties. originally planned as a pruning experiment but now used for student instruction and fruit production (the experiment having been discontinued a number of years ago); three acres which will be increased to five, in a straight commercial orchard and two and one-half acres in varieties of tree fruits which will grow here but are not in some cases commercially profitable in this district.

The variety orchard is for testing out new varieties which may be valuable to the fruit grower and for material used in teaching the senior classes. It now consists of one hundred and eighteen varieties, twenty-eight of which were added this year. The latter include twelve of the most promising of the varieties originating at Ottawa.

Special attention has also been devoted to vegetable work both at the College and throughout the Province. One of the officers of this Branch spent the summer at the Experimental Farm at Ridgetown and tested out a number of vegetables suitable for this particular section of Ontario. The information secured is of great value to the growers of that district. The growers in other sections of the Province have been assisted in various educational ways. The work of the Branch and some of the results therefrom with reference to four leading vegetables may be of general interest as shown by the following report.

Cabbage.—Golden Acre cabbage was widely distributed during the season of 1924, both by this Branch and through individual growers procuring seed. Our observations lead to the following conclusions regarding it:

1. The existing strains are not pure as to type and will bear further selection.

2. There is a wide variation in value between some strains, though the recommended strains from reliable seed houses are fairly uniform as to value.

3. The variety Golden Acre is adopted as a first early sort to the later vegetable growing sections of the Province. It is not as yet tested out sufficiently

against Jersey Wakefield and Copenhagen Market for the south-western part of the Province to recommend the variety over these sorts.

4. Golden Acre cabbage would seem to have a place of importance as an early maturing cabbage planted late as a second crop. In the College gardens good heads matured from seed sown the first week in July.

Celery.—A large number of samples of different strains of Paris Golden celery were obtained and grown both at the College gardens and at the Ridgetown Experimental Farm. Samples of some of these lots were also distributed amongst commercial growers. Observations and records were made as a result of which some information was provided—Firstly, as to the source of supply of the best strains tested, and secondly, as to the adaptability of certain strains to certain types of land and for definite crop reasons. As a result of this work we make the following recommendations: The old type Paris Golden celery, though a less vigorous grower and consequently more susceptible to celery blight is still the variety of the Golden Self Blanching sorts best suited to be grown on muck soil for a late crop and for storage. Eberles' strain (old type) Golden Self Blanching; J. B. Rice Company's strain of Dwarf Golden Self Blanching; and Midgeley's strain of Golden Self Blanching are those that showed up best of the lots of this sort tested out. The new type of Paris Golden celery, known under various names as Wonderful, Golden Plume, etc., is well suited for growing as an early celery. This strain shows great vigour and more resistance to blight than the older types. On muck land it is only suitable to be grown for an early celery for immediate use and especially when grown on muck land it does not appear to have first class shipping possibilities.

Eberles' Wonderful, Forbes' Golden Plume and Vilmorin's new type Golden Self Blanching all did well under test.

From celery studies we would be included to recommend the greater use of good strains of Easy Blanching for storage purposes since it is a vigorous grower, fairly resistant to blight and makes a good quality celery with all indications of standing up well under storage. Eberles' Easy Blanching proved an exceptionally good strain in 1924.

Tomatoes.—This past season "Canadian" tomato, a variety originated at Guelph, was distributed and grown in comparison with other early sorts. Two different lots were also grown in greenhouses.

As a greenhouse crop it is much earlier in producing fruit than the varieties now grown but owing to the tendency of the fruit to be somewhat rough and the fact that the clusters do not set fruit as uniformly under greenhouse conditions as some of the forcing varieties, its use as yet for this purpose is not recommended. As an outdoor early, however, lots No. 233 and No. 523 proved particularly good and with further selection work, which is being carried on, should prove a very valuable first early sort.

So far the variety has not proven better for canning purposes than those already grown but with further selection of one particularly promising strain it is hoped to develop an early maturing sort of good commercial value for this purpose.

Spinach.—Seed or Virginia Savoy spinach, resistant to spinach yellows, was introduced by this Branch and distributed to a few of the larger growers of fall spinach crops. It proved to be a variety of outstanding merit when grown under test with other standard sorts and its adoption is assured for use as a fall grown crop in Ontario.

Experimental work in a small way is being carried out to test its possibilities as a spinach crop to winter over in cold frames for early spring use.

DEPARTMENT OF BOTANY

In addition to the regular teaching work and correspondence of the Department, the following investigational and extension work was carried on during the past year:

Co-operative experiments in weed eradication.
Investigations into the cause and means of control of root rot of canning peas.
Experiments in the prevention of rhizoctonia or black scurf of potatoes.
Experiments concerning the effects of various fungicides in the control of cereal smuts.
Experiments in co-operation with the Department of Entomology to determine whether financial gains are to be secured in the spraying of commercial vineyards for the control of insects and fungus diseases, and to determine the time and number of applications for the best results.
Special investigations into the plant disease problems of the Essex Peninsula.
A survey of certain townships of Oxford County to determine the relationship of the presence of the buckthorn to serious outbreaks of leaf rust of oats.
Purity tests of clover and grass seed for farmers and seedsmen.

This year five plant diseases were brought to the attention of this Department that are believed to be new to the Province. Namely, rose canker, twig canker of elms, celery yellows, palm smut and anthracnose of lettuce.

Each of these diseases was investigated by the Department and considerable information has been made available as to the best methods of dealing with them.

Investigations into the cause and means of control of root rot of canning peas were continued. This disease is present and doing considerable damage in the Counties of Prince Edward, Victoria, Hastings and Durham.

Experiments were carried on to test the resistance of certain strains of canning peas to root rot and blight. It was found that Rices 330 and Horel and several strains having the general characteristics of Rices 330 were highly resistant, in some cases, producing ninefold, while ordinary seed proved a complete failure. These strains are being multiplied and it is hoped within a comparatively short time to have available for the growers of canning peas in Ontario seed of a strain of canning peas having the qualities sought for by the canner, and being at the same time resistant to root rot and blight. Canning tests were made of Rices 330 and these peas graded No. 4 for size and were of excellent quality.

Further work was done with corrosive sublimate for the control of black scurf or rhizoctonia of potatoes which has been under experiment for the past six years. All the potatoes from selected or treated seed showed only slight traces of the disease while those from untreated and unselected seed showed serious damage up to as high as 82.5 per cent. The best results were secured from seed treated for three hours with 1/2000 solution in which the percentage of disease was only 2.5.

DEPARTMENT OF BACTERIOLOGY.

Legume-bacteria cultures for legumes seed inoculation prepared and sent out to applicants this year amounted to six thousand four hundred and fifty-eight, and the lactic culture starters to one hundred and eighty-nine.

From these cultures we obtained a revenue of three thousand one hundred and two dollars.

Several hundred morbid specimens of poultry, animals, plants and miscellaneous samples such as milk, cheese, butter, bee combs, preserves, soil, silage, etc., were received and reported on.

Eighty-five samples of farm well water were examined of which seventy were condemned for pollution.

A new, effective, inexpensive and simple method of disinfecting bee combs infected with *B. larvae*, the cause of American foulbrood, has been devised as a result of a series of experiments with a number of disinfectants.

Izal, be-health, chlorazene, formalin in aqueous dilutions, and Hutzelman's solution (a commercial preparation of formalin and alcohol) were the disinfectants tested.

Bee combs infected with American foulbrood were immersed in various dilutions of the different disinfectants for varying lengths of time—from two hours to as long as eighteen days in some cases.

Bacterial cultures, on a modification of Sturtevant's yeast peptone-egg-yolk-agar, were then made from larval scales taken from the treated combs to determine whether or not the spores of *B. larvae*, as they occur in such scales, had been killed.

The cultures made from larval scales taken from the combs immersed for forty-eight hours respectively in izal, chlorazene and be-health, all showed growth of *B. larvae*, thus indicating that such immersion in these disinfectants had not been effective in killing the spores of *B. larvae* as they occur in the dried larval scales of infected combs, and further, that in the case of immersion in be-health, the effect on the combs was very injurious, the wax being made weak and friable.

The cultures made from larval scales taken from the combs immersed in the water formalin mixtures and those immersed in Hutzelman's solution, failed to show growth of *B. larvae* in the case of open cells after twenty-four hours' immersion and in the case of closed cells after forty-eight hours' immersion, thus indicating that this treatment had been effective in killing the spores of *B. larvae* as they occur in dried larval scales in infected combs.

Further, it was found that by rinsing the combs under the water tap after they had been removed from the formalin dilutions it was possible to readily get rid of the formalin, so that, after drying, the combs could immediately be put to use.

In view of the fact that these laboratory experiments indicated that the water dilutions of formalin were equally effective in destroying the spores of *B. larvae* as was the more expensive alcohol dilution of formalin, known commercially as Hutzelman's solution, the Apiculture Department treated a number of badly infected combs as recommended, immersing affected combs forty-eight hours in a mixture of 20 per cent. formalin, 80 per cent. water. These, after such treatment, were put out for use and carefully observed throughout the season. Now, at the end of the season they report that not a single case of American foulbrood has resulted from the use of these combs.

Thus is placed in the hands of apiculturists an effective, inexpensive and simple method of disinfecting bee combs infected with American foulbrood, a disease that has given them an enormous amount of trouble to keep in check.

"Soilgro".—In the early months of the year a bacterial preparation known as "Soilgro" was put on the market by a Toronto firm. An advertising campaign was inaugurated by the company in the agricultural press and by agents throughout the country, in which apparently extravagant claims were made regarding the benefits to be derived from the use of this preparation as a crop improver when applied to the soil. The price list quoted one pint, $2; one gallon, $6; one barrel, $100.

The Department of Bacteriology immediately began to receive requests from farmers, agricultural representatives and newspaper publishers as to their opinion regarding the claims made. In order to comply with these requests it

was necessary to make a bacteriological and chemical analysis of a sample. This was accordingly done with the following findings:

Chemical tests of "Soilgro" direct showed no ammonia and no nitrate present.

Bacterial cultures made on various solid culture media showed:

Various decomposition bacteria and moulds—numerous.

Nitrifying bacteria—none.

Nitrogen-fixing bacteria—none.

Chemical tests of cultures made in the necessary specific liquid culture media showed ammonification as a result of the action of the decomposition bacteria but no nitrite or nitrate formation nor any nitrogen fixation even after six weeks' cultivation.

Our opinion based on these findings was that the claims made for the preparation were without foundation.

We did not make any crop tests as the results obtained from our laboratory investigation tallied with those we obtained in 1920 from our investigation of "Soil Vaccine" on which occasion we also ran a number of crop tests during the season, the results of which showed no benefits to accrue from the use of the preparation.

We, however, recommended that the Director of the Vineland Experiment Station, try out "Soilgro" on some of his crops. He did this and now at the end of the season reports that his check plots did as well as those that were treated.

DAIRY BACTERIOLOGY

A continued study of the number of bacteria, yeasts and moulds in Ontario creamery butter and their relation to flavour and keeping quality has been carried on. Three hundred and fifty-eight lots of creamery butter were analysed for their bacterial content and 859 for yeasts and moulds. Two hundred and seventy-two of these were held in cold storage and the fifty lowest count lots and the fifty highest count lots were rescored for flavour when five months old. Details and results of this work will be published in the technical and scientific press.

During the early part of the summer, at the instigation of Mr. Frank Herns, Chief Dairy Instructor for Western Ontario, a considerable amount of time was devoted to a study of the effect of the addition of varying quantities of different kinds of preservatives to cream. Data were secured which are useful to officials engaged in cream inspection work.

Mouldiness of butter after storage continues to be reported from different parts of Ontario from time to time. Our experience would indicate that this trouble is chiefly due to surface infection after the butter is made. In co-operation with Dr. E. G. Hood, Chief of the Division of Dairy Research of the Dominion Dairy and Cold Storage Branch, Ottawa, the question of possible infection from parchment papers has been investigated, and some useful data obtained.

Study of the Methylene Blue Reduction Fermentation Test has been continued, an electrically heated and controlled water-bath having been designed and constructed, the use of which enables one to secure a uniform temperature for all samples undergoing the test in a cheap and simple manner. With the placing on the market of a standardized methylene blue tablet, the chief obstacle to the more general use of this test has been removed, and for

dairies that are not in a position to make bacterial counts by the standard plate method, this test offers a cheap, rapid, simple and efficient substitute.

Several of the new peptonized and dehydrated milk agar media have been tried out in connection with our milk and butter work in comparison with the "standard" agar medium. Results obtained have been so variable that no definite conclusions as to their respective merits have been arrived at.

AGRICULTURAL ECONOMICS

The work of this Department is divided into three distinct but correlated groups, instructions, research and service to farmers in their economic problems.

The energy of the instruction section of the staff has during the past year been devoted to revising and improving all the courses offered by the department, i.e., political economy, agricultural economics, farm management, marketing, farm bookkeeping and accounting, statistics and rural sociology to the regular students as well as political economy, civics and rural sociology to the students of the Ontario Veterinary College and Macdonald Institute. Of the above courses, those in agricultural economics, marketing, bookkeeping and statistics have reached a reasonably satisfactory stage of perfection. They are all relatively new subjects in the realm of academic treatment, and there is little historical experience in the teaching of them either here or elsewhere so that their development under this Department has been a process of continual experiment and change. The remaining courses have not yet been brought to as satisfactory a stage of serviceability but considerable progress has been made this year in that direction.

A useful innovation was effected in the last two months of the year through an arrangement for interchange of lectures between this College and the University of Western Ontario by means of which a representative of this Department offered a course in agricultural marketing and co-operation in the London University in exchange for a course in the principles and mechanism of the demand side of the marketing given here by the professor of commercial economics in the neighbouring college. This exchange has produced very gratifying results in both institutions.

Investigation work is based on the long programme of research inaugurated by farm management surveys in 1918. The field work is now completed and in a little over one year the office calculations should be completed.

In addition to the above programme of research the members of the Department have investigated a number of specific economic problems of agriculture arising out of the rapidly changing agricultural conditions. An enumeration follows of some of the problems investigated and on which definite action and favourable results have been attained.

(*a*) The Niagara fruit industry and express rates.
(*b*) The live stock industry and express rates.
(*c*) The live stock industry and freight rates (three cases).
    (1) Minimum weights on mixed car loads.
    (2) Reduced rates on feeders and stockers from Ontario markets.
    (3) Reduced rates on horses.
(*d*) The fluid milk trade in twelve Ontario cities.
(*e*) The marketing of Ontario apples.
(*f*) The costs of creamery operation.
(*g*) Equalization of County taxes in Wentworth County townships.

(*h*) Investigation of Saskatchewan Co-operative Creameries for Committee of the Saskatchewan Legislature.

(*i*) The marketing of Ontario's live stock. (This work started during the last day of the year.)

The above problems, most of which deal with some phase of marketing, occupied a large share of the time of some members of the staff, and a part of the time of all members as no effort was spared to get all possible facts and then to bring the best judgment available to bear on the solution of the problem.

A number of publications in mimeograph form were prepared and sent out to interested parties.

DEPARTMENT OF PHYSICS

During the year 1924 the Department of Physics has enlarged upon its Extension activities until it is prepared to offer assistance in connection with the following list of farm operations or installations:—

1. Water or sewage disposal systems.
2. Lightning rod protective systems for urban or rural structures of all classes.
3. Drainage surveys.
4. Farm cold storage plants.
5. Concrete construction in all branches of farm engineering.
6. Anti-freeze mixtures.

The research work of the Department has, during the year, been confined to the following branches of Applied Science:—

1. Initial experiments to determine the reason for certain types of trees being more often struck by lightning than others.

2.—(*a*) Tests of anti-siphon traps for use in farm plumbing to eliminate, as far as possible, back venting.

(*b*) Simplified joints in farm plumbing systems.

3. Completion of experiments made to determine the correct methods of testing resistances of "lightning rod grounds" with a view to suggesting changes in rules and regulations governing these.

During the year demonstration laboratory equipment has been extended and remodelled so as to include:—

1. A complete septic tank system, arranged that students and visitors can see the system operating under practical conditions, every part exposed.
2. A complete equipment of sanitary conveniences, suitable for farm homes, has been installed, including several modern types of water systems with shallow and deep well pumps.
3. A simplified plumbing installation, less expensive and easier to install than the regular systems used to-day. All pipes are exposed to view, in order to demonstrate the complete layout.
4. A modern farm lighting system completes the equipment. It supplies power to operate the various domestic water systems.

Inspections of these systems by farmers, or rural residents, is invited.

The preparation and publication of Bulletin 306 on Cold Storage has been completed. This bulletin (Number 207, revised) includes many new features to meet the needs of the modern farmer.

Inquiries *re* ice houses and small cold storage plants have greatly increased in number this year.

Bulletin 267, "Modern Water Systems," will be supplemented shortly by a pamphlet giving special information concerning more modern systems.

Correspondence *re* water systems amounts to thousands of inquiries per annum. Ever increasing numbers of sewage disposal systems are being installed each year, through the assistance given by the Department in the form of blue-prints giving full details of these systems.

FARM DRAINAGE INCREASES

A wet spring with prolonged rains during the early part of the summer, and a dry fall which made drainage installation possible, increased the demands on the Drainage Department considerably. Tile yards, which in the spring were piled full of tile, this fall had some difficulty in filling their orders on time. Ditching machine operators found an increased demand for their services, and on a whole drainage activities have greatly increased.

As has been the case during the last few years the financing of the work has been a big problem and has required much attention. Special demands along this line for assistance were made during the year. These came chiefly from township councils interested in securing government assistance for their ratepayers through the "Tile Drainage Act." Requests from eight councils were received. Their meetings were attended and the by-law discussed. Practically all of the councils have passed or will pass the by-law securing this financial assistance for those wishing to use it for drainage purposes.

Special efforts were made this season to locate machines where drainage work was in demand. The results have been very gratifying and would indicate a necessity for greater activity along this line. The immediate use of surveys under this system must be noted, in fact the most of the surveys during the year were urgently requested. In many cases it was necessary for the field men to prepare rough plans for immediate use. This made it possible to leave the survey in much better condition, as permanent stakes could be left ready for the construction of the work and in many cases the overhead line was erected in order that a good job would result.

The personnel of the field staff has not been changed, which has made possible the accomplishing of more and better work. It was found necessary, however, to have an extra man during the summer and fall.

The following table shows the actual amount of field work accomplished during the year:—

SOUTHERN ONTARIO

County	No. of Surveys	Acres
Brant	1	25
Halton	7	405
Lincoln	9	240
Norfolk	1	45
Oxford	9	400
Peel	6	155
Wentworth	23	1,100

WESTERN ONTARIO

County	No. of Surveys	Acres
Elgin	2	150
Essex	19	1,170
Kent	15	900
Lambton	13	1,000
Middlesex	1	100

County	No. of Surveys	Acres
Eastern Ontario		
Carleton	1	305
Grenville	1	75
Hastings	2	48
Lanark	1	25
Leeds	3	430
Northumberland	1	45
Renfrew	1	30
Stormont	2	45
Central Ontario		
Bruce	3	400
Grey	1	15
Huron	6	545
Ontario	5	170
Perth	4	140
Waterloo	8	300
Wellington	17	425
York	7	450

Besides the survey work, much time was spent by the supervisors in making field inspections of completed work or work in progress, and in personal interviews relative to the locating of a machine, financial assistance, securing outlets and matters pertaining to the work.

The ditching machine in Northern Ontario was kept in steady operation all season. During the early part of the summer at Sault Ste. Marie, about a hundred acres of tiling was done. It was then moved to Massey, where two carloads of tile were installed for a demonstration on the farm of R. J. Mooney. From there it was moved to Sudbury and three carloads installed for a demonstration on the Blezard Valley Demonstration Farm.

During January and February two two-week short courses were held at Guelph and Chatham. These were fairly well attended, and as far as has been possible, the work of the short course has been supplemented this summer by following up the field work done by those operators who took the course.

APICULTURE DEPARTMENT

The Apiculture Department has increased its colonies to two hundred and forty. These apiaries are located as follows: College, 55 colonies; Brock Road, 40 colonies; West Montrose, 60 colonies; Eramosa, 34 colonies; Ridgetown Experimental Farm, 51 colonies. The colonies in these apiaries are used by the senior students as part of their practical work, whenever possible. Some colonies are sold each year as demands require.

It was not found possible to secure an experienced beekeeper for the rearing of queens in the apiary located at the Experimental Farm, Ridgetown, so the work was conducted at the College Apiary. Just over 100 queens were sold and a number of departmental colonies were requeened.

The season of 1924 was a poor year for honey production, although most of the colonies were put away in good condition for winter.

During the summer the Department held twenty-two apiary demonstrations in various sections of the Province. These were well attended and appeared to give satisfaction to the beekeepers present.

In apiary inspection there were fifty-five men who did more or less apiary inspection during the active season.

The Department has been working along the same lines as in 1923, in trying to concentrate the work in certain counties and attempt to clear these of American foulbrood.

During the year a bad outbreak of American foulbrood was found in New Ontario around New Liskeard. This case was spread through a considerable number of apiaries and territory, and was all caused through the selling of used, infected, bee supplies to the various beekeepers in that territory. Two inspectors made a thorough inspection and it is hoped that the outbreak is almost entirely under control and that another inspection should eradicate it completely. This case will be given every care in 1925.

Considerable inspection was done in the counties of York, Huron, Wellington, Welland and Ontario. In the eastern counties, where American foulbrood is only found in occasional apiaries, and other counties where disease is very light and scattered, inspection was only carried out after a suspected sample had been received at this office and the presence of American foulbrood certain.

Following is a report of the apiary inspection work carried on during the season:—

County	Colonies Examined	Colonies Diseased		Colonies Destroyed	Colonies Treated	Colonies treated by Beekeeper
		A.F.B.	E.F.B.			
Brant	322	56	.....	23	.....	14
Bruce	993	76	.....	10	41	29
Carleton	161	84	.....	2	63	16
Durham	699	65	129	3	5	33
Dufferin	1,359	55	2	31	1	3
Elgin	1,081	59	.....	1	10	4
Frontenac	31	.....	2	.....	.....	.....
Grey	696	121	.....	11	63	87
Huron	646	3	.....	.....	3	35
Hastings	47	.....	.....	.....	.....	.....
Haldimand	360	27	.....	8	.....	15
Halton	17	11	.....	.....	.....	13
Kent	16	16	.....	.....	16	.....
Lennox	184	.....	8	.....	.....	.....
Lincoln	875	135	.....	43	65	22
Lambton	451	73	2	9	67	1
Lanark	400	12	6	1	3	31
Middlesex	292	26	.....	2	1	11
Oxford	260	19	.....	.....	.....	14
Northumberland	204	31	.....	.....	.....	.....
New Liskeard	860	50	81	14	31	24
Ontario	812	26	146	1	3	28
Peterboro	10	4	1	.....	.....	2
Perth	608	91	.....	1	.....	114
Peel	727	75	.....	17	42	36
Simcoe	177	43	34	8	12	.....
Victoria	111	3	63	.....	.....	.....
Wentworth	251	50	22	.....	7	38
Waterloo	80	12	.....	.....	3	1
Welland	384	28	34	.....	.....	6
Wellington	563	36	3	11	2	47
York	3,497	514	392	38	35	251
Toronto	942	109	.....	21	44	72
Total	18,116	1,910	925	245	517	947

York County, 1923, colonies examined, 3,639; A.F.B., 667; E.F.B., 198, destroyed, 50; treated, 141.

York County, 1924, colonies examined, 3,497; A.F.B., 514; E.F.B., 392; destroyed, 38; treated, 35.

Ontario County, 1923, colonies examined, 971; A.F.B., 111; E.F.B., 123; destroyed, 20; treated, 36.

Ontario County, 1924, colonies examined, 812; A.F.B., 26; E.F.B., 146; destroyed, 1; treated, 3.

ONTARIO VETERINARY COLLEGE

For the session which ended April 30th, 1924, a total of 70 students were in attendance, of which 15 were in the first year class, 14 in the second year class, 15 in the third year class, and 26 in the senior class. Of the senior class all were successful in passing the final examinations, and were graduated with the Degree of Bachelor of Veterinary Science (B.V.Sc.) conferred by the University of Toronto. During the present session which commenced on October 1st, 1924, a total of 63 students have been enrolled, of which 22 are in the first year class, 13 in the second year class, 13 in the third year class, and 15 in the senior or graduating class. From the foregoing it will be noticed that there is a substantial increase in the first year class, making a more hopeful and encouraging outlook for the future. Students now entering have a higher matriculation standing than formerly and as a result the average standing of the graduate is becoming much better.

In addition to the training of students the staff of the College has carried on extensive research and investigational work in veterinary subjects.

The extension service by means of which veterinary surgeons and owners of animals can send certain specimens to the College for laboratory examination is being freely availed of and is being appreciated by those receiving benefit. During the year the following work has been undertaken:—

The publication of a bulletin on infectious abortion in cattle.

The publication of a bulletin on diseases of poultry.

A study of the gross and histological anatomy of the fowl.

A study of chickenpox, diphtheria, roup and canker in fowl.

A study of bacterium pullorum infection in adult birds and white scours in chickens.

A study of blackhead and white diarrhea.

A study of sterility in cattle.

A wider application of the agglutination test for abortion.

The preparation and distribution of abortion vaccines.

The preparation and distribution of joint-ill vaccine.

The experimental and investigational work conducted by each department is described in some detail in the report of the College which has been issued for general distribution and which is of considerable value to the live stock men.

PUBLICATIONS AND STATISTICS

The work of compiling agricultural statistics was carried on in co-operation with the Federal authorities. The results are published from time to time as completed.

The distribution of the Annual Reports has been continued and the following are the figures of the numbers printed for distribution:—

Minister's Report	1,800
The Ontario Agricultural College	1,800
The Experimental Union	65,000
Agricultural Societies and Field Crop Competitions	9,000
Horticultural Societies	20,000
Vegetable Growers' Associations	5,000
Ontario Veterinary College	4,000
Agricultural Development Branch	2,000
Stallion Enrolment Board	3,000
Agricultural Statistics	25,000
Fruit Growers' Association	4,000
Entomological Society	3,000
Beekeepers' Association	4,500
Women's Institute	30,000
Total	178,100

The following crop bulletins have been printed for distribution:

157	December, 1923	30,000
158	April, 1924	3,000
159	May, 1924	3,000
160	August, 1924	5,000

Other bulletins printed for distribution were:

292*	Farm Poultry	25,000
188*	Weeds of Ontario	12,000
299*	The Bacon Hog	25,000
303	Mushrooms	15,000
304	Infectious Abortion of Cattle	20,000
305	Diseases of Poultry	12,000
306	Cold Storage on the Farm	15,000
307	Selection, Care and Management of a Barn	15,000
	Total	139,000

*New editions.

Circulars were printed for special distribution as follows:

43	Soy Beans	6,000
44	European Corn Borer	30,000

Circulars without series number:

Food for the Family	50,000
Better English	15,000
Girls Garment-making Clubs	5,000

AGRICULTURAL SOCIETIES BRANCH

The agricultural societies of Ontario continue to show great vitality and their numbers have been added to during the past year. Fall fairs and exhibitions furnish a good index as to the condition of those engaged in farming, and the splendid exhibits of all kinds of live stock and farm products that were entered at all the fairs are evidence that breeders and farmers are steadily grading up their animals by selection and putting into force up-to-date methods of farming generally. It has been so often asserted that horse breeding has been so seriously affected by the automobile that it could never recover, that many have begun to believe it. As evidence to the contrary, reports received from departmental judges and secretaries of fall fairs state that there has never been such a large entry of horses at the fairs as in 1924, and this was equally true as to heavy and light classes, the latter of these being the ones most affected by the automobile.

A serious drawback which affected principally fairs held during September was the cool and stormy weather experienced during that month. The total losses in gate receipts were very heavy and required all of the $10,000 appropriation, voted by the Government, to pay 90 per cent. of the losses incurred. Without this assistance a number of fairs would have been compelled to go out of business.

In spite of unpropitious weather at seeding time both the regular and the Combined Field Crop and Seed Grain Competitions show steady interest and were conducted successfully.

A usual there were excellent exhibits of grain at the Toronto and Ottawa Exhibitions and at Provincial Fairs. The exhibit at the Royal Show excelled in point of numbers and quality anything ever attempted at any similar exhibition anywhere.

HORTICULTURAL SOCIETIES

No organizations in the Province have made such rapid strides as the Horticultural Societies of Ontario, and they are steadily advancing in numbers and membership and enthusiasm, as well as extending the lines of work for the carrying on of which they were organized.

Starting with a few hundred members they have now reached a paid membership of over 50,000 and the applications for organizations during 1925 already received will mean continual expansion next year.

The appointment of a practical and experienced lecturer to the Horticultural Societies Branch has been made during the year and his services have been very much in demand especially in rural districts.

ONTARIO VEGETABLE GROWERS' ASSOCIATION

The Ontario Vegetable Growers' Association has done excellent work during the year both in the interests of its members in the Province, and also in the improvement in the quality of vegetables supplied to the consumers. The Toronto Branch has been reorganized and now has a membership of several hundred, to which others are being added continually. The other branches are also in a healthy condition. Greenhouses are being erected at various parts

in order to enable the growers to compete in some measure with the large quantity of fruits and vegetables imported from California, Mexico and the Southern States.

Garden and vegetable field crop competitions were again held, for which there were many entries and much interest was taken in them.

ONTARIO PLOWMEN'S ASSOCIATION

The number of branches of this Association has greatly increased over those of last year and they still continue to expand. The revival in plowing matches is very general over all parts of the Province and is greatly helped by the interest taken in them by the youthful farmers of Ontario. The results cannot fail to be beneficial to the growing of better crops, and the consequent increase in production. If fields are not carefully ploughed it is idle to expect good crops to be raised on them, and the only way that farmers can learn the proper way to plough is for them to attend plowing matches and keep in mind the rules and regulations there observed, which are the same at local matches and at those which are Provincial in character.

The Provincial Plowing Match, Tractor and Farm Machinery Demonstration was this year held on the farm of B. H. Bull & Sons, Brampton, on October 15th, 16th, 17th and 18th, and was attended by many thousands of people during the four days. On the 17th there were upwards of 30,000 in attendance. All types of machines used on Canadian farms and in farm homes were in operation and were carefully examined by those who wished to purchase same. One of the chief attractions were the tractors, of which there were a number at work, and much favourable comment was heard on the satisfactory way in which they did their work. One of these was run by a Scotch boy eleven years old, who surprised the onlookers by the excellent work he accomplished and received a special cash prize therefor.

The Hydro-Electric had a tent on the grounds 100 feet long, with all kinds of electrical appliances in operation, and this department was continually crowded with interested spectators. The usual banquet was held on Friday evening and was largely attended, and interesting speakers from all parts of the Province took part. Prizes were given out at this function. It was admitted on every hand that this was the largest demonstration of the kind ever held. For several days previous to the match the $3,000 worth of trophies were exhibited in Brampton.

ONTARIO FIELD CROP AND SEED GROWERS' ASSOCIATION

This is a newly constituted organization in the interest of the seed growers of the Province. Its membership consists of farmers from every section of Ontario, and particularly those interested in the Standing Field Crop and Registered Grain Competitions. The great difficulty experienced by the grain men of Ontario is that the ordinary fanning mill used by the farmers is not capable of removing barley from oats, and for clovers and grasses the cleaning process is indifferently done. The officers of this organization are investigating the situation very carefully and expect to accomplish something by procuring cleaners that will do the work thoroughly. There are several machines on the market that have been tested at the Kemptville Agricultural School, and the Central Experimental Farm at Ottawa with excellent results. This Association is anxious that a few of these mills be made available to the farmers in different sections of the Province.

LIVE STOCK BRANCH

The attendance at the "Better Live Stock Train," which visited some sixty places throughout Ontario during the months of March and April, 1923, was so encouraging that a similar train was equipped and sent out during the same months in 1924. There were in all sixteen cars made up as follows: Box car for moving bulls for sale to different points within counties, one feed car, one car of demonstration beef bulls, one car of demonstration dairy bulls, one car of beef cattle representing market classes, one car of dairy cows, a car of swine representing market grades with corresponding Wiltshire sides made from hogs of each grade, and also breeding stock of the recognized bacon breeds, one car devoted to sheep, a car in one end of which was a water system suitable for farm homes and in the other end of which was an exhibit of wool and fabrics made from Canadian wool, a car for poultry, one car for general live stock information, two lecture cars and a diner and sleeper.

In addition to brief talks given in each of the cars, members of the staff delivered special lectures in the lecture cars as follows: Fifty-six beef cattle lectures, thirty-seven dairy cattle lectures, forty lectures on swine and swine marketing, forty-seven lectures on horses and common horse troubles, eighteen lectures on sheep, and seventy-five lectures and demonstrations on poultry.

The staff and equipment for the train was supplied by the Ontario and Dominion Departments of Agriculture, the Ontario Live Stock Associations, the Industrial and Development Council of Canadian Meat Packers, the Canadian Pacific and the Canadian National Railways, thus reducing the net cost to the Department to approximately $4,000, or eight cents per person who inspected the train.

The following table gives a summarized statement of the attendance:—

OLD ONTARIO.

	Attendance	Average
8 All-day stops	9,350	1,194
22 a.m. stops	12,800	582
22 p.m. stops	18,400	836
1 evening stop	1,200	1,200
Total attendance	41,750	
Total number of stops, Old Ontario	53	
Average attendance at each stop	800	

NEW ONTARIO.

8 All-day stops	8,150	1,019
2 a.m. stops	1,300	650
2 p.m. stops	1,100	550
Total attendance	10,550	
Total number of stops, New Ontario	12	
Average attendance at each stop	880	
Grand Total—Stops	65	
Grand Total—Attendance	52,300	
Average attendance	805	

STALLION ENROLMENT

In the Province of Ontario during the season of 1924, there were 1,217 horses enrolled, which is a decrease of 100 over the previous year. It will,

however, be noted by referring to the tables given below that the decline in the United States is even greater than in Ontario.

SUMMARY OF BREEDS OF STALLIONS ENROLLED FOR THE YEARS 1913-1924.

Year	Clydesdale	Percheron	Shire	Belgian Draft	French-Canadian	Suffolk	Standard Bred	Thoroughbred	Hackney	French Coach	German Coach	Ponies, Morgans and Hunter	Grades	Total Number Horses Enrolled
1913	1,179	236	69	17	1	....	156	31	59	7	6	6	993	2,760
1914	1,313	308	73	21	4	....	232	43	72	5	7	5	1,118	3,201
1915	1,331	328	70	22	4	....	257	46	77	7	6	7	1,022	3,177
1916	1,125	320	47	15	5	4	270	36	63	7	7	6	826	2,731
1917	1,038	299	42	19	4	3	280	31	60	6	7	4	640	2,433
1918	885	262	33	11	7	3	248	25	49	3	5	4	458	1,993
1919	976	326	32	21	6	3	286	19	47	2	6	5	.....	1,729
1920	930	353	32	22	11	4	240	16	36	2	8	5	.....	1,659
1921	845	347	23	26	9	2	200	14	34	1	7	3	.....	1,511
1922	770	368	20	25	8	2	193	18	35	....	4	4	.....	1,447
1923	687	344	15	31	10	2	166	24	27	....	7	5	.....	1,318
1924	614	338	9	30	12	2	152	21	28	....	7	4	.....	1,217

SUMMARY OF ENROLLED STALLIONS IN UNITED STATES.

State	1916	1917	1918	1919	1920	1921	1922	1923
Illinois	8,184	7,342	5,341	4,436	3,687	3,190	2,757	2,761
Indiana	4,743	4,234	3,413	2,811	2,255	1,914	1,335	1,297
Iowa	8,130	6,975	5,441	3,727	3,028	2,603	2,485	2,488
Kansas	.....	5,448	5,087	4,439	3,543	3,030	2,557	2,337
Michigan	1,243	1,292	1,369	963	910	823	755	645
Missouri	.....	.....	3,726	3,033	2,298	1,948	1,617	1,515
North Dakota	3,153	3,063	2,572	2,166	1,347	1,026	992	777
Oregon	1,225	1,167	1,024	931	932	660	602	593
Pennsylvania	1,007	925	778	687	562	446	383	327
South Dakota	2,170	2,038	2,075	1,373	892	756	906	786
Wisconsin	3,053	.....	2,435	2,051	1,688	1,445	1,251	1,153
Total for Year	32,908	32,484	33,261	26,617	21,142	17,841	15,640	14,679
Average per State	3,656	3,609	3,024	2,420	1,922	1,622	1,422	1,333

Premiums to Pure Bred Stallions

A sum of $6,000 is given annually as premiums to stallions which are of sufficient merit to warrant premium, and in 1924 was granted on the following basis:—

Number of In-foal Mares	Number of Stallions Qualifying	Amount of Premium Granted
15 to 20	5	$15 00 each
21 to 30	16	25 00 "
31 to 40	20	40 00 "
41 to 50	20	60 00 "
51 to 60	17	73 00 "
61 to 70	11	85 00 "
71 to 80	7	100 00 "
81 to 90	2	110 00 "
91 to 100	1	125 00 "
101 and over	2	150 00 "

The new Ontario Stallion Enrolment Act came into force August 1st, 1924, and it is hoped that this may work an improvement in the horse breeding industry of the Province, as under this Act really inferior sires are not granted a certificate. The forms of certificates now issued are as follows: "A 1," issued to really high class horses; "Approved Form 1," for sound horses of good quality, but not really A 1 horses; "Passed Form 1" issued to fair horses, perhaps not absolutely sound, but too good to turn down; "Defective Form 2" granted to unsound horses, but not considered as inferior.

There is also a change in the fees, which under the new Act are as follows:—

For enrolment before 1st May of each year	$2 00
For enrolment after 1st May of each year	4 00
For inspection at regular times	free
For special inspection	10 00
For duplicate certificate	50

Inspection of stallions takes place every three years so long as a stallion is used for public service, whereas under the former Act a stallion required inspection every second year until he was seven years of age, after which time he did not require any further inspection.

BACON HOG CLUBS

These clubs, formed under the supervision of the Agricultural Representative, consist of at least ten members who own at least twenty breeding sows. The Department loans the club a pure bred boar of approved type.

There are now 125 of these clubs, forty-eight of which have been organized during the year 1924. Some very valuable data has been obtained on the breeding qualities of the boars, and many excellent breeding animals have been kept in service by the system which permits of having them removed to other communities.

The following is a list of the counties and the number of clubs in each.

County	Number of Clubs	County	Number of Clubs
Brant	2	Lennox and Addington	1
Dufferin	2	Middlesex	1
Elgin	1	Northumberland	2
Essex	10	Oxford	8
Grey	30	Perth	2
Haldimand	3	Peterborough	3
Halton	10	North Simcoe	7
Hastings	5	South Simcoe	6
Huron	4	Victoria	2
Kent	1	Waterloo	5
Lambton	1	Wentworth	14
Lanark	1	York	4

LOCAL POULTRY ASSOCIATIONS

Grants, judges, lecturers, etc., were supplied to local poultry associations during the fiscal year of 1923-24 as follows:—

Number of grants paid to poultry associations	60
55 associations received grant of	$50 00
5 associations received grant of	$30 00
Total grants paid	$2,900 00
Number of lecturers, demonstrators, etc., supplied	16
Number of judges supplied	67

An association must be approved before receiving grant, but does not necessarily need to be approved in order to receive judge, as judge will be supplied to associations making application for same, providing they are willing to pay $5 per day, hotel and bus fare, while the Department pays $5 per day and transportation expenses.

ONTARIO STOCK MAKES FINE SHOWING

Assistance to Ontario Live Stock Associations in making exhibits at foreign exhibitions has been given during the year ending October 31st, 1924. Exhibits of Ayrshires and Jerseys were made at the National Dairy Show, held at Milwaukee, with much success. The following is a summary of the winnings:—

AYRSHIRES

Firsts	1
Seconds	6
Thirds	3
Fourths	2
Fifths	2
Other prizes	15

JERSEYS

Firsts	0
Seconds	1
Thirds	5
Fourths	4
Fifths	3
Other prizes	6

These showings include the winning of perhaps the most coveted prize, that of the State Herd in the Ayrshire breed, wherein eight animals are shown belonging to at least three breeders. No State Herd award was made for Jerseys, although it is generally conceded that Ontario would have won if the competition had taken place.

INTERNATIONAL LIVE STOCK EXPOSITION WINNINGS, CHICAGO, ILL., 1924

Sheep

In sheep, the following summary shows the remarkable winnings made by Ontario breeders, in the eight breed classes in which they competed.

BREEDING CLASSES

Breed	No. of Ontario Exhibitors	Total First prizes offered	Ontario Won							
			1st	2nd	3rd	4th	5th	Other prizes	Champ.	Res. Champ.
Shropshire	2	9	6	1	1	2	4	4	2	2
Dorset	1	10	8	2	3	3	2	....	2	1
Southdown	3	8	7	5	4	3	2	....	1	2
Oxford	2	8	2	6	1	4	3	....	0	1
Cheviot	1	8	0	1	3	3	1	....	0	0
Leicester	1	8	7	3	2	0	0	....	2	0
Lincoln	2	8	8	4	4	3	4	....	2	2
Cotswold	1	8	4	2	2	2	2	....	0	2
	13	67	42	24	20	20	18	4	9	10

It is worthy of note that while Ontario did not have more than perhaps 25 per cent. of the exhibitors in these classes, Ontario breeders won 63 per cent. of the possible first prizes; 55 per cent. of the total championships; and 62 per cent. of all reserve championships.

FAT CLASSES

Breed	Total first prizes offered	Ontario Winnings.							
		1st	2nd	3rd	4th	5th	Other prizes	Champ.	Res. Champ.
Shropshires	3	....	1	....	....	....	1	.....	.....
Oxford	3	2	1	1	....	....	.....	.....	1
Dorset	3	1	1	1	1	....	.....	.....	1
Cheviot	3	....	....	1	....	....	.....	.....	.....
Southdown	3	2	3	....	....	....	.....	1	.....
Lincoln	3	3	3	2	1	....	.....	1	1
Cotswold	3	3	3	2	1	1	.....	1	1
Leicester	3	3	3	2	1	1	.....	1	1
Grades and Crosses, medium wool	4	1	1	....	....	....	.....	.....	.....
Grades and Crosses, long wool	4	4	4	4	2	2	.....	1	1
	32	19	17	16	6	4	1	5	6

This summary shows Ontario winning 59 per cent. of all the first prizes in those fat classes in which they competed and also winning 50 per cent. of all championships, and 60 per cent. of all reserve championships.

In addition Colonel Robt. McEwen & Sons, London, Ontario, succeeded in winning, for the third time in succession, the Grand Championship for the best car load of not less than fifty lambs. Belvoir Stock Farm stood fourth in this competition.

It is gratifying to note that a considerable number of lambs among the prize winners were sired by rams imported during the summer of 1923, by the Ontario Sheep Breeders' Association. Assistance, both financial and otherwise, was given by the Ontario Department of Agriculture, through the Live Stock Branch, to make this importation possible.

Beef Cattle

In beef cattle, Ontario was represented by only four steers, and five shorthorns in the breeding classes. The four steers owned by John Kopas & Sons, Elora, succeeded in winning: One championship, three firsts, three seconds, one third, one fourth and one fifth in very strong competition.

The five Shorthorns, owned by T. A. Russell, Downsview, captured one second, two thirds, one fourth, one ninth and one eleventh prizes.

RAM CLUBS

Work in connection with the ram clubs organized through the Live Stock Branch has been carried on during the year with satisfactory results. The work in castration, docking and dipping of the flocks has been gradually taken over by the flock owners themselves, which of course is an important step in permanent improvement. The beneficial results from the demonstrations given have been so obvious that in many cases farmers have built permanent community dipping tanks.

Sale of Lambs from Middleville Sheep Club, Lanark County, 1924

On October 3rd, a market lamb fair was held at Middleville, in conjunction with the Agricultural Society Fall Fair. Classes were provided for:—

1st—Pen of 10 market lambs.
2nd—Pen of 5 market lambs.
3rd—Pure bred ram and 3 grade ewe lambs, his get.
4th—Single ewe or wether (market class).

The lambs were all weighed, graded and marked as delivered. There were, probably, 375 lambs delivered of which fifteen were light lambs, weighing about sixty-five pounds, that were taken home by a local farmer to feed and finish. Many exhibitors also took home a number of the best ewe lambs to be kept for breeding purposes. The judging of the market lambs was done by F. Sherwood of Swift Canadian Co. of Toronto, and the breeding classes by A. A. McMillan, Ottawa, and L. E. O'Neill, Live Stock Branch, Toronto.

After the show, 299 market lambs and thirteen old sheep were driven to Perth and shipped to Toronto, to be sold by Dunn & Levack. The lambs left Perth Monday, October 6th, and were sold in Toronto on Tuesday, October 7th.

SALE RESULTS

Grade 1.—121 lambs, weight, 9,740 lbs., at 12½ cents	$1,217 50
Grade 2.—117 lambs, weight, 9,770 lbs., at 12 cents	1,172 20
Grade 3.— 61 lambs, weight, 4,920 lbs., at 11 cents	541 20
299 lambs, weight, 24,430 lbs., at	$2,931 10

Average weight of 299 lambs at Toronto, 81.7 lbs.
Average price per cwt., $12.00.
Average shrinkage per lamb, Middleville to Toronto, between 7 and 8 pounds.

The prevailing market for the good lambs marketed on October 7th was $11.75 to $12, with a few small lots selling at $12.25 per cwt. When it is considered that these 299 lambs were not a hand-selected group, but taken from the farmers as delivered, and that the average for the entire lot was the top of the market for the day, the results are quite satisfactory.

The shipment was accompanied to Toronto by three members of the Ram Club: J. T. Sommerville, Reeve of Lanark Township; J. H. Rintoul, Reeve of Darling Township; Alex. McKay, President, Middleville Agricultural Society.

The expenses in shipping were as follows:—

Freight on 3 cars, at $31.55 each	$94 65
Market fees and feed	27 85
Selling commission at $10 per car	30 00
Stamp tax	1 00
Feed en route	5 00
Stamps on local checks	1 50
Total	$160 00

It is reported by the local farmers and those who accompanied the shipment, that local buyers at Perth were paying $9 per cwt. for lambs. Only four contributors to the shipment received less than $10 per cwt. net on Middleville weights. The selling of lambs according to grade was highly satisfactory to the farmers concerned.

At a meeting held in Middleville on October 17th, the following information was given to the farmers by the Swift Canadian Company, who purchased these lambs, re killing percentage and grade of carcasses for the various groups.

"This lot of lambs was considerably better than the average of the lambs marketed in Toronto, and the weights and quality were such as to furnish just the right kind of carcasses to suit market requirements. The dressing percentage was approximately 51."

Eganville Club

Eganville Ram Club lambs in 1924 were marketed in a club shipment on October 24th. The following summary is interesting in showing the quality of lambs marketed.

No. of Lambs	Wt. Toronto	Wt. Eganville	S.P. Toronto	Net price to farmer
126 Choice	10,370	11,384	$12 75	$11 00
66 No. 1	5,300	5,694	12 00	10 30
3 Rams	270	307	10 00	8 00
3 Heavies	320	371	10 50	8 80
10 Lights	600	680	9 00	7 30
1 Ewe	120	143	4 50	3 00

The comment of the commission firm which sold these lambs is:—

"These lambs were the product of pure-bred rams supplied by the Government, and were castrated, docked and dipped under the supervision of Mr. Winters, Agricultural Representative at Renfrew. They were sold on Monday, October 27, to the Puddy Brothers Meat Company, at $12.75 per cwt., and they in turn sold the dressed product to the T. Eaton Company, Limited. They were a very fine type with a high dressing percentage and show what can be done by way of bringing any line of live stock up to a state of perfection."

New Clubs

During the summer of 1924 ram clubs were organized at Norwood, in Peterborough County, and Franktown, in Lanark County. These communities

are excellent districts for sheep raising. Briefly the conditions governing these clubs are, that pure-bred rams will be supplied for service on the various flocks on condition that the practice of dipping, docking and castrating be followed and that the progeny of these rams be marketed in a co-operative shipment to a central market. The Norwood Club has fifteen members and the Franktown Club twelve members. Dipping, docking and castrating demonstrations will be given during the summer of 1925.

In order to assist farmers in Northern Ontario to secure pure-bred rams at reasonable prices, the Live Stock Branch, in co-operation with the management of the demonstration farm at New Liskeard, purchased in March, 1924, twenty Shropshire and five Oxford rams. These were shipped to New Liskeard and cared for until the Fall of 1924, when they were sold to farmers at very moderate prices.

CO-OPERATIVE CAR SHIPMENTS OF LIVE STOCK

This is called our co-operative shipments of live stock to Western Canada and Northern Ontario. The table following will give an idea of the services rendered to Ontario breeders shipping to Western Canada for the years 1908 to 1924 inclusive:—

NUMBER IN EACH SHIPMENT

Year	Horses	Cattle	Sheep	Swine	Total
1908	22	74	14	15	125
1909	25	70	84	4	183
1910	39	51	36	7	133
1911	58	51	51	18	178
1912	51	45	24	20	140
1913	47	71	107	21	246
1914	49	97	34	20	200
1915	28	104	76	8	216
1916	59	185	100	22	366
1917	70	269	196	15	550
1918	67	250	180	4	501
1919	24	154	154	4	336
1920	18	110	37	6	171
1921	1	37	19	5	26
1922	3	18	6	21	48
1923	6	32	9	28	75
1924	1	22	2	0	25

In addition to assistance in shipments of stock to Western Canada, assistance has been granted in payment of freight charges on car lots of live stock for breeding purposes that are purchased and sent to Northern Ontario. In this connection during the year ending October 31st, 1924, one-half of the total freight was paid on one-half a car of live stock that was sent from Unionville to Brower.

ASSISTANCE TO AUCTION SALES OF PURE-BRED LIVE STOCK

During the year November 1st, 1923, to October 31st, 1924, assistance has been given to twenty-six local associations that have held sales. A total of 1,017 cattle passed through these sales and the total assistance given amounted to $2,258. The assistance so granted is paid at the rate of $3 per head for every animal sold, with a maximum grant to any association of $100.

Where the local association asks for inspection, which happens in most cases, the animals offered are inspected by an officer of the Live Stock Branch previous to the sale. This inspection has a tendency to prevent the offering of undesirable animals, thus raising the general average.

INSTITUTES BRANCH

The Institutes Branch continues to furnish lecturers and demonstrators on a variety of farm problems for a limited number of meetings arranged for by the boards of agriculture and agricultural representatives. In planning for such meetings the Women's Institutes very often lend their co-operation, in which case a lady speaker is provided for a special meeting of the women in the afternoon and a joint meeting in the evening. The general practice is to treat exhaustively through the holding of "Short Courses" definite lines of work—stock judging, fruit growing, bacon production, etc., for the men; and home nursing, food values and cookery, sewing, etc., for women. Valuable service can, however, be rendered by the holding of one day meetings for the consideration of general agricultural and home making problems of the community. In a few counties this form of effort is still carried on effectively.

The Women's Institutes are now firmly established throughout practically all sections of the Province; there being 928 Women's Institutes and forty-seven Girls' or Junior Organizations. From the standpoint of education for grown-ups, providing wholesome recreation and entertainment, assisting in community problems and undertakings, philanthropy, and good citizenship in general, their value in national development and stability cannot be overestimated. Groups of women representing the homes of the community, banded together for mutual benefit and service, have developed a keen sense of responsibility and power in not only home problems but public affairs, especially as they affect women and children.

The most gratifying feature is the earnestness and efficiency with which the Institutes, first organized about twenty-five years ago, are carrying on. As the years pass the field of opportunity and responsibility for the Institutes is ever widening and their efforts and influence is more far-reaching.

The Women's Institutes are a force and a very important factor in the education of women of responsibility, both young and old, and in training the girls to a sense of responsibility and knowledge bearing upon the duties which will come to them in later life.

The privilege of gaining, through the regular meetings of the Institutes and in the literature available through the Institutes, knowledge bearing upon their work is a privilege much appreciated and a great factor in adding to the efficiency of the rural homemaker.

The Institutes have built up a form of organization and method of carrying on which is a great national asset. Efficiency, with a minimum of red tape and expense, appears to have been their motto. We have seen the independent branches bind themselves together in the district organization. The districts in a few counties plan for united effort. There are five area conventions, and a Provincial Board of Directors whose duty it is to consider matters of a Provincial character and take action on behalf of the Federated Institutes. In many centres, the Women's Institute is a recognized body to which appeal is made when matters of a community character or problems requiring something beyond individual action are to be considered, and local committees are formed within the Institute to deal with each line of work as necessity arises.

Those who have been active in the Institute and are familiar with the objects, methods and possibilities are extending the organization, gradually to new centres with a view to giving every woman the opportunity to learn and the privilege of serving through this organization.

The Institutes are co-operating more and more with various departments of the Government in making their efforts of the greatest benefit to the community. The Departments of Education, Health, Amusement, Provincial Secretary, and Agriculture, value the Institute as a co-operator in making administration, education, and service more effective at a minimum of cost.

The service rendered by the Institutes Branch of the Department of Agriculture embraces literature on matters of particular interest to women—foods, clothing, housing and labour saving services, also lectures, the providing of record books and report forms for the officers, a limited amount of assistance in extending the work to new centres, and the dissemination of news bearing upon the activities of Institutes throughout the Dominion.

The most valuable service is the furnishing of instructors for systematic courses in "Food Values and Cookery"; "Home Nursing and First Aid"; "Sewing" and "Millinery". The Institutes form classes and provide halls and become responsible for other incidental expenses in connection with their courses, while the Department furnished instructors for two weeks at each centre without charge, except for the classes in "Sewing" and "Millinery," where the numbers have to be limited, and the individual is charged $2.

The attendance at these courses during 1924 was as follows:—

DEMONSTRATION-LECTURE COURSES.

JANUARY-DECEMBER, 1924.

	Food Values	Nursing	Sewing	Millinery
Central Ontario	26– 955	30–1,121	34– 521	6– 65
Eastern Ontaro	8– 381	8– 349	11– 226	1– 12
Northern Ontario	3– 57	5– 88	22– 297	3– 35
Western Ontario	9– 319	16– 635	14– 255	3– 34
Total	46–1,712	59–2,193	81–1,299	13–146

Total Number of Courses		Number Persons Taking Courses
Food Values and Cookery	46	1,712
Home Nursing and First Aid	59	2,193
Sewing	81	1,299
Millinery	13	146
	199	5,350

In addition to the above regular Demonstration-Lecture Courses the Institutes Branch furnished instructors for three months' courses at twelve points in the Province. The instruction at each centre consisted of one month in food values and cookery; one month in home nursing and first aid; one month in sewing; and two weeks in millinery. The total number of persons taking advantage of the three months' courses for girls and women was:

Some of the institutes have asked for advanced courses, and such instruction in "Home Nursing" and "Cookery" has been given at several points and is much appreciated.

In addition to the regular Demonstration-Lecture Courses, the Women's Institute Branch furnished resident instructors for three months' courses at twelve centres during the winter or 1924. The resident instructor gave demon-

strations and lectures in "Food Values and Cookery"; "Household Management"; "Home Decoration"; "Labour Saving Devices", etc., while additional instructors were provided in "Home Nursing and First Aid", "Sewing" and "Millinery."

These three months' courses were held in conjunction with three months' courses in agriculture for boys and young men. The girls in attendance at the courses took advantage of a number of the lectures in agriculture, chiefly dairying, fruit growing, and bee keeping.

At a number of centres where such courses were held the girls in attendance have formed Junior Women's Institutes for future work.

The Department furnished instructors in judging bread, cake, school lunches, good dressing and sewing, in a number of counties. This was followed by the organization of judging teams through co-operation with the agricultural representatives. Teams of three being allowed from each township. One hundred and fifty-seven girls entered the judging competition held at the Canadian National Exhibition. The following counties furnished the number of teams indicated: Brant, 1; Bruce, 1; Dufferin, 1; Elgin, 4; Grey, 7; Haldimand, 6; Huron, 1; Leeds, 1; Middlesex, 1; Peel, 4; Perth, 1; Simcoe, 5; Waterloo, 2; Wellington, 6; Wentworth, 8; York, 6.

The winning team came from Elgin County, Dunwich Township. The prize-winners were: Miss Alice Galbraith, R.R. No. 3, Iona Station; Miss Grace Farr, R.R. No. 3, Dutton; and Miss Amy McCallum, R.R. No. 2, Dutton.

Very keen interest was taken in this competition and preparation for it was not only of educational value to a large number of girls in addition to those who competed in the final competition, but it brought the girls of the various townships together and will, we fully expect, ultimately result in the organization of a number of Junior Women's Institutes.

ANNUAL CONVENTIONS

Conventions were held at five centres in late October and early November. The reports presented, the discussions, the outline of services available, and plans for future work, indicate healthful development and effective activities.

At Dryden, where delegates came 400 miles from one direction and 200 miles from the opposite direction, the numbers were not so great as to destroy the sense of personal responsibility in making the gathering a success. The institutes of this section of the Province are progressing on very broad lines—improving the schools, endeavouring to secure and retain capable teachers, appealing for new schools, looking to the social needs and possibilities of the community, making their monthly meetings a real educational factor and rendering a splendid service along philanthropic lines, by giving assistance from local sources where possible, and securing additional aid when necessity requires from institutes in the older sections of the Province.

The institutes are firmly established in this section of Ontario, and the delegates were most optimistic as to the future of the institutes and display great faith in the future of the country.

The North Bay convention stressed the importance of service through the Institute. Ways and means of overcoming handicaps and relieving distress that have come through misfortune or uncontrollable conditions received first consideration, and still there was time for the story hour, pioneer days in the North, health problems, reforesting, libraries. Two of the latter have been established in cement jails which had been discontinued as prisons. The Institute

is a real community builder and continuous public benefactor, as well as a real educational force in the North country.

At Ottawa, besides the "regular" Institute work, community halls received special attention, and associated with them were young people's gatherings, community rallies, libraries properly housed, music, plays, and all that may be successfully associated with a good community hall. Travelling libraries are being more generally utilized, and a few have community Christmas trees. Tourists utilize some rest rooms, leaving small contributions which are used in carrying on and extending the work of the Institute. Several districts in the east are systematically extending the organization to all sections of the territory covered. Splendid assistance is being given to school fairs and regular fall fairs, the institutes co-operating in making plans and contributing prizes. In the educational features of the monthly programmes, social opportunities for the old and young, men and women, boys and girls, community requirements and advantages, the east is progressing along lines which mean permanency and ever increasing value and service in and through the Institute.

The convention at London partakes of a real family gathering; the civic officials, the Chamber of Commerce, and other representative residents of London seem to take a great delight in making the annual visit of the Institute delegates an occasion of expressing their appreciation of the splendid work being done by the institutes in their respective communities and the support they are giving to various public undertakings.

Visitors are impressed with the variety of personalities working harmoniously for a common cause. Evident satisfaction with what has been accomplished, an eagerness to learn of new lines of work, and a determination to make the Institute a greater force in nation building, characterized the western convention. The spirit of service and the desire to support all activities in which young people are directly or indirectly concerned will ensure continued success in Western Ontario. There is a growing desire to make the Institute of increasing worth to women on the farms, while at the same time recognizing the necessity for town, village and country to co-operate if the ideals of the institutes are to be realized. Special attention is being paid by the institutes of Western Ontario to the newcomers, especially those from overseas. They are being absorbed in a manner which insures love of Canada and its traditions.

The final convention of the season, held at Toronto, was well attended by enthusiastic, representative women who had sent in splendid reports of work accomplished, who never hesitated in discussion, and were eager to plan for further effective work.

The Toronto convention is so big that many with definite information and valuable suggestions are never heard from. The final result, however, is that most valuable lines of work and many helpful suggestions are presented.

There appears to be a very healthful balance in this district between educational, philanthropic and community building activities.

WHAT THE INSTITUTES ARE DOING

The usual staple lines of community work have been carried on this year—the building of community halls, the establishing of libraries, caring for neglected cemeteries, and assisting in equipping and maintaining hospitals. The reports show too that more attention has been given to developing the social life of the community by arranging concerts by local talent, debates, amateur plays and social gatherings, to which all the members of a community are invited. Several

districts have organized a series of inter-institute debates which have aroused the interest of the whole section. A few have held choral competitions and one institute has organized a community choir. In several cases the women's institute has taken the initiative in having a community hall built, interviewing the township council and agreeing to bear a certain share of the expense in building and maintaining the hall. In one case the institute gave the council $1,500 towards the cost of building, in return for which they have the free use of the hall. Perhaps, however, the institutes are doing equally important work in supervising the recreation going on in halls already built. A number of them are taking an active part in arranging a programme of wholesome recreation.

While the institutes continue to respond to appeals from outside the community—the Navy League, hospitals, the Institute for the Blind, Armenian Relief, etc., there is a growing interest in local hospitals, the county children's shelter and house of refuge, and particularly in providing for needy families or individuals within the immediate community. One case of what might be called immigration work, or just plain neighbouring, was reported as follows: "A new babe came to a foreign family near one of our villages. The mother was very ill. Neighbour women were kind, but they did not understand the case. At length the attending physician went to the village institute, saying: 'If you women don't get a trained nurse, that woman is going to die.' The nurse was there in less than two hours, and a mother's life was saved for her family."

Community hospitals are receiving a great deal of support in the outpost sections of Northern Ontario, where the Red Cross is establishing hospitals, the building to be provided by the municipality and the staff to be paid by the Red Cross Society. In many cases the institutes of the district have taken on the entire responsibility of equipping the building.

In several counties the institutes have been influential in bringing in a Public Health Nurse to give a six months' demonstration of what a Public Health Nurse would mean to a community. In cases where the nurse is retained by the municipality, the institutes frequently assist in defraying the expense and in providing such supplies as she may need for her work among poor families.

Perhaps the varied programme carried out by an institute may be better described by outlining the year's work of one branch. The objective of this institute at the beginning of the year was to establish a community hall with gymnasium, rest room and reading room for the young people. While they were working to this end, they found time to send a donation of canned fruit to the Sick Children's Hospital, to provide a baby's outfit for a poor woman in the village, as well as to buy clothing for herself and her little boy and to pay a nurse to care for her during her illness. Then they assisted with the Junior Women's Institute's judging competition, both by contributing money towards the prizes and material to be used at the competition. A memorial hospital has been built in the county, so they gave a donation of money to buy linen for it. About this time a man in the neighbourhood lost his wife, and shortly afterwards his house was burned. The institute offered to help him furnish another house and canvassed the village for articles of furniture, so that the night after the fire the man and his children were again seated by their own fireside, their cupboards well filled with food contributed by the institute. Another case of need was reported to them one Sunday morning of a mother who was expecting a baby, and who had no clothing either for it or herself. The women did not wait until Monday morning, but got out their sewing machines and by night had the woman supplied with bed linen and clothing for herself and child. They arranged to have the county provide her with food. The institutes of

older Ontario have also materially assisted the northern institutes in their local relief work. Where an institute in the north has been trying to provide clothing for a number of poor families, most of whom are still suffering from the results of the Temiskaming fire, the Department has been able to put them in touch with an institute in a more prosperous section of old Ontario, and in this way to provide them with a quantity of second-hand clothing.

SCHOOLS AND CHILD WELFARE

In addition to assisting with school fairs, redecorating and improving school buildings and supplying them with sanitary drinking fountains, wash basins, towels, playground equipment, hot lunch equipment, first aid kits, gramophones, or in a few cases a piano, the following items have been reported:

A number of institutes give medals or prizes to school children for regular attendance, general proficiency or for high standing in examinations. One district gave a One Hundred Dollar Scholarship at MacDonald Institute to the girl taking the highest standing in the county three months' course in home economics. Institutes in ten counties contributed money for prices in the Girls' Household Science Judging Competitions. One institute arranged an oratorical and debating competition for pupils at the collegiate institute. Another planned a banquet and public speaking competition for public school pupils and the young people of the community. Separate competitions were arranged for different grades. The event proved of so much interest to parents and friends that the banquet had to be abandoned for lack of room to set tables. But they had the speeches and a pass-around supper afterwards. Several branches have distributed flower bulbs to the school children and later gave prizes for the best flowers produced.

One branch is financing a music teacher to come to the school once a week to teach the children singing. They are undertaking this for a period of six months. At the end of this time they will hold a concert, inviting the parents and trustees, with the hope that the school section will continue the lessons and take on the responsibility of paying for them, also that the work will be introduced into other schools of the neighbourhood. Another has organized a children's choral class, engaging a local teacher to lead them.

Several institutes are assisting the school nurse in her follow-up work, providing glasses or medical treatment for children whose parents cannot afford these. A few have provided milk for undernourished children. One reports buying books for poor children. A great many, particularly in the northern sections are endeavouring to provide clothing for children who otherwise could not attend school during the winter. Very often a supply of second-hand clothing is provided by an institute in old Ontario and made over to suit the needy families by the local institute in the less prosperous community. One branch has appointed a "School Relief Committee," and when the principal finds children who are unable to attend school for lack of shoes or clothing, he appeals to the institute through this committee. If the school nurse finds families where the children are underfed, the School Relief Committee provides food for them.

In several cases the institutes have arranged dental clinics and, through the help of the Red Cross, nose and throat clinics for children requiring operations.

A great many institutes have been instrumental in introducing the hot lunch in rural schools, but the method followed in one case is especially interesting. A committee from the institute attended the school meeting and explained

the matter to the trustees, who agreed to bear any necessary expense. In order to help them and to get the work started immediately, one institute member loaned her coal oil stove, others provided cooking utensils and a dishpan, and the children brought their own serving dishes from home. The parents took turns in providing materials to be cooked, while the School Board supplied the necessary cupboards and table. With the Government grant received this year the school lunch will be thoroughly established.

GIRLS' WORK

There are forty-seven junior institutes in the Province, with others arranging for organization this spring. The junior institutes are composed of young women from seventeen to about twenty-five years of age. They are organized on the same basis as women's institutes, but their programme of work is along lines of definite interest to girls. The juniors have made a great deal of use of the demonstration lecture courses in foods and cookery, home nursing, sewing and millinery, and in their regular monthly programmes they are making a study of home making and community problems. They have assisted with relief work in Northern Ontario, particularly in the way of making infants' and children's clothing. They have also assisted the senior institute in such projects as establishing a skating rink, or a library, or equipping a hospital. They co-operate with the Junior Farmers' Improvement Associations in debates, public speaking, dramatic and choral competitions, in arranging field days and social gatherings in general. One group is making quite a success of an "Exchange" or sale of home cooking, canned fruit, eggs, chickens, home-made bread, or other lines of their own produce. These goods are sold at a stall on the market and some of the girls realize a considerable income.

In addition to the girls' institutes, thirty-five girls' garment making clubs were organized this year. The work is carried on under the direction of the Department through local leaders or teachers. The work is of an entirely practical nature and the results show that the girls are receiving a valuable training in sewing.

DAIRY BRANCH

In reviewing the dairy industry of the Province for the year 1924, it is gratifying to be able to record a gradual expansion and development with many encouraging results, but there is still great need for further stabilizing the industry by the production of uniform, high quality goods.

The season was unusual in that the pastures were fresh and bountiful during the whole season in practically all sections of the Province. The period of high production continued throughout the summer and fall with very little shrinkage in output during July and August, as is usual. The sudden drop in November was more marked than usual and the output in late November and throughout December was below the previous year, nevertheless the season's production was considerably above that for 1923.

Dairying is well suited to practically all sections of the Province. The great majority of Eastern Ontario farmers depend almost wholly upon dairying for their cash income. In Western Ontario, where there is a greater variety in agriculture, we find dairying developing in districts where comparatively little attention was paid to this branch in former years. Northern Ontario is proving its adaptability to dairy farming, and during the past year, creameries have been organized with assistance from the Department of Agriculture at Cochrane and Matheson. These plants will be operated in 1925.

It has been demonstrated in various ways during the year that Ontario dairy farmers and manufacturers of dairy products can furnish goods of the highest quality. The exhibit of Ontario cheese at the Dairy Show, held under the auspices of the British Dairy Farmers' Association in London, England, secured first, second, and third place in competition with other overseas' Dominions, and the comment of the judges was to the effect that "there did not appear to be anything else in the class to come anywhere near them." The winners were: First, J. Sprott, Eastern Dairy School, Kingston; second, H. McIntosh, Lanark; third, Benson Avery, Kinburn.

In the Dominion-wide Educational Scoring Contest for butter and cheese, Ontario made a much better showing than heretofore. Five of the six samples of butter entered in the contest were classed as "specials" and Ontario stood second among the provinces for the season. In the cheese scoring contest, Ontario took first place every month. The average score of the first place samples was 96.15 per cent.

All cheese for export and some used for domestic trade was graded by the Federal grading staff, and Ontario's record was most creditable, the percentage of first grade cheese being 89.26 per cent., an improvement of 5.36 per cent. over the previous year.

The quantities of milk devoted to other than cheese and butter making is on the increase. The amount of butter and milk consumed in the rural districts is greater than formerly, due largely to the fact that people in general have a keener appreciation of the food value of dairy products. The improvement in quality also tends to greater consumption of butter. The distribution of literature, largely through the women's institutes, containing information on the food value of milk and its products, together with special dairy exhibits by the Dairy Branch at the Canadian National and London (Ont.) Exhibitions, emphasizing the importance of using sufficient dairy products and setting forth their food value, have no doubt been strong factors in increasing the consumption of milk, butter and cheese. The amount of milk and cream used in the towns

and cities of the Province represents a large volume and value, and while it is impossible to get definite records of consumption in the small centres and rural districts, returns gathered from various sources enable us to give more reliable returns than usual for "Milk Used for Human Consumption."

The following statistics will be found of interest:

DAIRY STATISTICS FOR THE PROVINCE OF ONTARIO FOR THE YEARS 1922, 1923 AND 1924.

		No. of Factories	Pounds	Value
Cheese	1922	844	92,707,059	$15,036,980
	1923	805	99,556,415	18,846,197
	1924	795	103,500,000	17,077,500
Butter	1922	204	52,729,166	18,547,954
	1923	234	54,873,180	19,478,505
	1924	227	59,500,000	20,081,250
Condensed Milk, Powdered Milk, and Casein	1922	20	.....	5,565,000
	1923	21	.....	8,400,000
	1924	.....	.....	9,000,000
Disposed of by factories, creameries, condenseries and milk powder plants in the form of ice cream, milk, buttermilk, cream, whey, soft cheese, etc	1922	.....	.....	7,000,000
	1923	.....	.....	7,000,000
	1924	.....	.....	8,000,000
Farm dairy butter, milk used on farms, town and city milk supply, ice cream, etc	1922	.....	.....	24,000,000
	1923	.....	.....	25,000,000
	1924	.....	.....	27,000,000
Total value	1922	.....	.....	70,149,934
	1923	.....	.....	78,724,702
	1924	.....	.....	81,158,750

In comparing Ontario's output with the production for the whole Dominion for 1923, we note that this Province produced 65.7 per cent. of the cheese and 33.7 per cent. of the butter. The production for the whole Dominion was 151,624,376 pounds of cheese, and 162,834,608 pounds of butter; and Ontario furnished 99,556,415 pounds of cheese and 54,873,180 pounds of butter. Ontario is responsible for a large percentage of the condensed and powdered milk output, a branch of the industry which is growing in volume and promises to be an important factor in Ontario dairying. It will be seen, therefore, that Ontario produces about one-half the factory output of dairy products for the whole Dominion, and with the great areas in the north country, which are proving well suited to dairying, we may look forward to a great expansion in this most important branch of agriculture. Now that Ontario must look to the export market to dispose of considerable quantities of butter as well as the great bulk of our cheese, the producers and manufacturers must awaken to the importance of uniformity and quality in our exportable dairy produce if we are to establish Canadian goods in the markets of the world.

The prices were discouragingly low early in the season, but gradually advanced and, with less than the usual fluctuations, remained fairly uniform throughout the year. The average price of butter in 1924 was 33¾ cents as compared with 35½ cents in 1923. Cheese prices for 1924 averaged 16½ cents, a decrease of nearly 2½ cents per pound as compared with 1923. It will be noted that while the volume of cheese increased four per cent. and butter nine per cent., the total values are not so great as in 1923 by over a million dollars.

Cheese Factory Instruction.—A staff of thirty-five cheese factory instructors were available throughout the manufacturing season to assist the makers whenever and wherever their services were desired. Periodical calls were made at all factories, and in addition the instructors tested monthly composite samples of milk where this was desired. The object of instruction and inspection is to maintain and improve the general quality of our dairy products. There are many problems in handling and caring for milk, manufacturing methods, and preparation for the market which call for constant attention on the part of the makers and the instruction staff.

Owing to the cool season, certain difficulties which usually arise during the periods of warm weather were not as prominent as usual. "Off flavours" were unusually prevalent and were combated through the use of fermentation tests, investigation at the point of milk production, and improving factory conditions. Milking machines were found a source of serious trouble, but where instructions in washing and caring for the machines were closely followed, satisfactory results were obtained. Many rusty cans were discarded and the sediment test used in effecting improvement.

The grading of cheese by the Dairy Division of the Dominion Department of Agriculture has assisted the instruction staff in locating and correcting defects more readily and with greater despatch than heretofore. The grading records of two years clearly demonstrate that with normal milk, standard methods will give No. 1 cheese. A goodly number of makers have succeeded in having 100 per cent. of their cheese placed in first grade. The producers have the first responsibility in quality production, by furnishing the best of milk.

The grading of all cheese for export and much of that utilized in the home market will stimulate the makers to greater effort and in competition the incompetent makers will gradually be eliminated.

The failure of some factories to correct unsanitary conditions in and about the plant, in accordance with the requests of the instructors, has been followed by closer inspection than usual during the fall of 1924, and written notification has been given to the management of the factories outlining improvements in building, equipment and surroundings which will be insisted upon for the following season. There is no excuse for any factory not complying with the requirements—suitable building, adequate equipment, a good water supply, good drainage, and the premises kept clean inside and out. The problem of replacing many of the small, poorly constructed, poorly equipped factories by larger plants is a responsibility which must be met by the producers in the localities concerned sooner or later, if they are to carry on effectively in the dairy business.

In the erection of new and the improvement of old factories, considerable sums were spent, the total for the year being $225,000.

Creamery Instruction.—The creamery instructors co-operated closely with the Provincial Grading Station established at the Municipal Abattoir, Toronto. When the grading reports indicate defects in quality or workmanship, the services of an instructor were made available to the plant concerned, as soon as possible. Considerable time was spent by the instructors in establishing uniform grading standards for cream on the part of the creameries which desired such service. The local markets absorb an ever increasing amount of butter made from average mixed cream, and while the quantity of such butter has not been lessened, we are pleased to be able to report that a greater number of creameries are producing first grade butter, which finds a ready market through well established channels. Unfavourable market conditions during the latter part of the year

and the strong position maintained by the creameries which graded the cream closely, should result in a rapid extension of the purchase of cream on a quality basis.

Many of the creameries adopted more efficient manufacturing methods by pasteurizing, more effective cooling equipment, and proper holding facilities. During the year, investigation of creamery costs revealed the fact that a great deal of unnecessary expense is incurred by collecting trucks from different plants covering the same territory. Surely the producers and manufacturers can formulate some plan whereby the apparently unnecessary added expense of half a million dollars per year can be avoided.

The increase in the number of small creameries in recent years is to be regretted, since excessive competition has added to the cost of collection and the difficulty of producing first grade goods has been intensified. It would seem desirable to amalgamate some of the existing creameries rather than to establish additional plants in some parts of the Province.

Butter Grading.—The Provincial Butter Grading Station which was established in 1919, primarily for educational purposes, has at last resulted in quite firmly establishing butter grading throughout the Province, and the term "Government Graded" is a commercial term now generally used in actual trade in Ontario. Three thousand three hundred churnings from twenty-six creameries were graded in 1917, the first year of operation, and in 1924 there were 18,226 samples received from ninety-nine creameries, an increase over 1923 of over four per cent. Although samples representing 15,000,000 pounds of butter were graded in 1924, this was only about twenty-five per cent. of the production in the creameries of the Province. In 1924 the percentage of first grade butter increased by about four and half per cent., but the actual improvement was greater than this would indicate.

In addition to the grading, Storch tests were made of practically all samples received. One sample a week from each creamery was examined for yeast mould and bacterial count, and the results reported to the creamery concerned. This service has no doubt had a beneficial influence on the sanitary standards of the various plants and is having an effect on the general quality of the butter.

With the marked results that have been obtained in some plants through grading, it is difficult to understand why there is hesitation on the part of creamerymen to take advantage of the service.

The grading station has established confidence on the part of both the seller and buyer and it is the aim of the Department of Agriculture to make the service of still greater value, but this can be accomplished only when the creamerymen follow methods which are recognized as essential in the production of high quality goods.

The export of butter from Ontario during 1924 was about 40,000 boxes, or about four per cent. of the creamery production. The quality of our exported goods must be of the very best, if we are to maintain a healthy market situation in Canada.

Payment for Milk on the Butter Fat Basis.—The instruction staff tested milk in 683 cheese factories with 25,109 patrons during the past season; 112 factories made other arrangements for testing the monthly samples. Where the testing was done by other than an instructor, check tests were made from time to time by a representative of the Department. The factorymen with a few exceptions observed very closely the regulations covering the taking, preserving, and caring for samples. Fewer complaints regarding tests were received than in previous

years, and adulteration of milk as occasionally practised some years ago is now almost a thing of the past. The amount of milk required to make a pound of cheese was slightly reduced in 1924.

The number of farmers who are utilizing the Babcock test and scales in weeding out their herds is rapidly increasing, and the effect of the Dairy Standards Act in stimulating herd improvement is quite general. The full benefits of this legislation will be more and more apparent as the years pass.

From three to four men have been employed continuously throughout the season in checking up the testing of milk and cream at cream buying stations, creameries, condenseries, milk powder factories, and cheese factories in which the instructors were not making the regular monthly tests This checkup work has been of great value in standardizing methods and ensuring to the producers equitable tests. Both the manufacturers and the producers recognize and appreciate the value of the service.

The dairy instruction staff addressed a large number of cheese factory and creamery meetings during the winter months. The majority of these are regular annual business meetings, with a portion of the time devoted to production and manufacturing problems. By appealing to the patrons at the annual business meeting many improvements in plants and much betterment in methods of production are secured, which would be impossible otherwise.

The Dairy Branch co-operated last year as usual with the Dairymen's Association of Eastern Ontario in holding a series of district dairy meetings, one in each of the eighteen subdivisions. The chief dairy instructor along with the local instructor and a representative of the Federal Grading Service attended these meetings, which were very well attended and pronounced of very great value. The keen interest shown by the producers as well as the factory owners and makers give promise of a very earnest effort during the coming season to still further improve the quality of Ontario cheese.

The Dairy Branch distributed through the factories and creameries of the Province a great deal of literature on the Care of Milk, Care of Cream, The Babcock Test, Ice on the Farm, and Cow Testing. Bulletin 266, Cheese and Butter Making, one of our standard bulletins revised from time to time, continues to have a large circulation. There is an increased interest in the keeping of herd records, as evidence by the application for monthly record forms as well as permanent record form for individual cows. All this literature, together with bulletins on Bacon Production, Production and Marketing of Ontario Cheese, Silos and Silage, Milk Production Costs, and Dairy Cattle, problems in which dairy farmers are deeply interested, are available to those who make application for the same.

FRUIT BRANCH

The 1924 fruit season was on the whole more satisfactory than 1923, when prices were extremely low for practically all fruits. With the exception of strawberries the crops were much lighter, permitting the markets to absorb the offerings at fair prices without the glut of the previous season.

Raspberries brought good returns and heavier plantings of this fruit will undoubtedly result. The demand for disease-free stock is good and great hope is entertained that the new variety Victor, originated at the Horticultural Experiment Station at Vineland, will continue to prove practically disease resistant. The station has already distributed hundreds of plants to growers in all parts of the Province.

The spraying season unfortunately was one of the worst on record owing to continued cold, wet weather. Great interest was shown in this work during 1924, as both Government and commercial interests have been emphasizing the necessity for more thorough and persistent efforts to combat scab and insect injury. More machinery and material were on order the past season that ever before, and despite the unfavourable weather conditions, the growers were convinced that it is possible in the worst of seasons to produce good commercial fruit.

Many applications were received asking for help in starting pruning, spraying and packing, and this kind of work is proving of increasing importance. Most of the applications come from the owners of commercial apple orchards that have been planted within the past ten or fifteen years, and which contain fewer varieties of standard kinds such as Spy, McIntosh, Snow, etc. Undoubtedly, as the old farm orchards pass out of existence, the reputation of our Ontario pack will be enhanced.

The plantings of the past quarter century have shown a decided tendency to the centralization of the fruit industry in certain areas. Peaches and grapes are now commercially confined to the Niagara belt, the vagaries of winter injury, especially with the peach, having caused any heavy planting in other parts of southern Ontario to cease. For other reasons, the apple plantings have been largely confined to the Norfolk District, the southern shore of the Georgian Bay between Collingwood and Meaford, the Niagara Peninsula with early varieties, the Burlington-Oakville section, the Northumberland and Durham District, and the St. Lawrence shore.

Berry growing has changed considerably in ten years with the industry shifting from the Niagara Peninsula to Norfolk, Peel and Halton Counties. Waterford, Simcoe, Burlington, Aldershot, Clarkson, Cooksville and Dixie are now the heaviest shipping points for these fruits. Shipping organizations exist at the first three points, the others depending upon the large local markets in Toronto and Hamilton and the many dealers who purchase for these and Montreal markets.

FRUIT EXHIBITS

Owing to the unusual season great difficulty was experienced in securing apples of high colour and proper size for the Imperial Fruit Show held this year in Birmingham, England. Picking had to start the last of September to secure all the fruit required and to have the packing and assembling completed by the 8th of October. Winter varieties like Spy, Greening and Baldwin were particularly late in both size and colour. As a result, the Province did not receive

as high standing in the awards as in previous shows. Members of the Ontario Fruit Growers' Association, who combined with the Department to make the exhibit, received five silver medals and seven bronze medals in the Overseas Classes, and cash prizes of seventy-four pounds.

The Royal Winter Fair, held one month later, gave the Ontario growers a better chance to secure high-class fruit, and the wonderful display of both boxed and barrelled apples was a great credit to our orchards. The sweepstake prize for the best box and all the prizes for fifty boxes of dessert varieties were awarded to Ontario. Norfolk, Halton, Peel, Grey and Simcoe furnished most of the fruit and the best awards went to those growers who had faith enough in the industry to continue planting as the old orchards went out of existence. This Department, as in previous years, assisted with the arrangement and placing of the exhibits, and in the judging of the fruit.

PROVINCIAL ENTOMOLOGIST

Nursery Inspection.—The nurseries of the Province have as usual been inspected for San José scale and all the infested trees have been removed. It is a pleasure to be able to report that our nurseries are almost entirely free from scale, being freer, so far as can be determined, than at any time during the last twenty or twenty-five years.

Orchard Inspection.—Orchard inspection for San José scale, black knot, peach yellows and little peach has been carried on in the regular way, and there is nothing new to report except that partly owing to weather conditions and partly perhaps to other conditions which have not been determined, the San José scale has decreased greatly this year, at least in the Niagara district.

Orchard Excursions and Orchard Meetings.—In July, at the request of the agricultural representative for Prince Edward County, an orchard meeting was held at Wellington, and in addition a tour was made by the representative and the writer through the main fruit districts of the county so that fruit growers who had been having special difficulties might be able to discuss these with us.

In several other parts of the Province, orchards were similarly visited with the same object in view, the owners themselves having requested such visits.

In September an orchard excursion was conducted by the agricultural representative and the entomologist through a number of orchards between Cobourg and Bowmanville to observe the results of the spraying in supervised orchards and also in non-supervised and in unsprayed orchards. Many growers attended and took advantage of the opportunity to ask questions on various aspects of spraying and other orchard work.

In Norfolk County a similar excursion was conducted late in September and was remarkably well attended in spite of the fact that it rained off and on throughout the day. This method of giving instruction and arousing the interest of the growers in securing clean fruit is, we believe, a valuable one.

Important work was done under the direction of the Provincial entomologist in extending personal supervision to spraying as carried on by individual apple growers. For the past season this work was confined to Durham County.

Eight orchards situated along the Kingston Road, between Cobourg and Bowmanville, were chosen for special attention, but it was made clear to the growers that any man asking for assistance or advice would be helped as far as time permitted. Some weeks before beginning the spraying the growers were visited individually to see that they had their materials ordered and that the spray outfit was being put into good shape for the work. Then when the proper

time to begin the spraying had arrived every man was notified over the phone. The next step was to visit each in turn, observe his work, point out any defects in methods and show how to correct these. In this way a large number of men were taught how to spray well and at the same time were saved the worry of knowing the right time to begin the work. The same course was followed in the later applications. In all, about fifty men received assistance and a certain amount of supervision of their work. The results were gratifying, especially considering the fact that the spring was exceptionally wet and that this made it very difficult to draw a spray outfit through the orchard and also produced very favourable conditions for the development of scab. There is little doubt that, had there been no supervision, very few growers would have obtained clean fruit, especially as the weather conditions made it difficult to determine just when to make the first application. Had this been made a few days earlier or a few days later, it would have meant dirty fruit. There is no other way under present conditions in which so much good can be done towards the revival of successful apple growing as by the supervision of spraying, provided, of course, that the right men are secured for this work.

HORTICULTURAL EXPERIMENT STATION

The various activities of the station are grouped for convenience under the following heads: Plant Breeding, Experimental and Extension.

Plant Breeding

The plant breeding work as a whole has now developed to the point where the earlier originations are being grown on a semi-commercial scale. In strawberries, raspberries and peaches in particular varieties have been originated which are rapidly establishing themselves in the favour of the commercial growers. Nurseries are taking over the propagation of these new varieties, and seem anxious to keep informed of the newer introductions as they are made. At the present time the available nursery stock is entirely inadequate to meet the demand. Growers are intensely interested in the production of improved varieties and appreciate the value of this line of work.

Strawberries.—The Vanguard, a station seedling from a cross of Pocomoke and Early Ozark, is making a very favourable impression as an early berry. The first strawberries shipped out of the district in 1924 were of this variety from the farm of E. D. Baldwin. The demand for plants of this variety exceeds the supply many times so that only a limited supply of plants can be distributed to those who have made requests. Another seedling, No. 19322, also gives excellent promise as an early berry.

Raspberries.—Some two thousand plants of Viking (H. E. S. seedling No. 14038) were distributed in 1924. With a limit of 200 plants to any one grower, there are on hand at the present time requests for ten thousand plants of Viking. On the station grounds there is approximately one acre of this variety, mostly of 1924 spring planting, and it is expected that sufficient plants will be available from this planting in the spring of 1925 to meet the above demand. Seedling No. 14048 also shows promise, the fruit being very large, attractive and of good quality.

Raspberry mosaic seriously threatens the raspberry industry, and with a view to securing commercially desirable varieties immune or resistant to this disease a considerable amount of new hybridizing work has been started. As

a result of this work several thousand seedling plants, of which one parent is resistant, have been obtained and planted out in permanent fruiting quarters. These should fruit in 1926 and thereafter.

Gooseberries.—The Clark gooseberry, a chance origination in the Burlington district, has shown marked promise in tests at this station. Clark is probably a natural hybrid of the English and American varieties. It is a vigorous, healthy grower, free from mildew, and drouth resistant to a marked degree, holding its foliage perfectly throughout the warmest, driest seasons. The fruit is much larger than Pearl or Downing. It is considered the most promising of any variety either European or American, so far tested at this station.

Peaches.—Vedette and Valiant, two station seedlings, will be catalogued regularly by nurseries in the future. About two thousand trees of the above and other promising seedlings have been distributed to date. Vedette is a seedling of Elberta and very similar in all respects to that variety, but maturing fully two weeks earlier. It is superior to Elberta in quality. Valiant also is a seedling of Elberta which it closely resembles, but differs in season, maturing about midway between St. John and Elberta, thus closely following Vedette. Valiant and Vedette, therefore, extend the season of the Elberta type peach by fully two weeks. Other seedlings now being tested give promise of extending the season still further.

Cherries.—Victor, a white sweet cherry originated at this station, has shown considerable promise and is being propagated for extensive trial. One nursery is propagating independently and cataloguing. Victor is of the Napoleon type and colouring, large, firm fleshed, very attractive in appearance and of good quality. It ripens with Governor Wood, and on account of the firmness of the fruit, larger size and more attractive appearance should supplant that variety.

Pears.—In the breeding work for blight resistance, several seedlings of promise were noted in the 1924 fruiting season. One in particular, No. 170127, is considered of outstanding merit. To date the tree has shown no evidence of blight though further test will of course be necessary to establish resistance or otherwise. The fruit is medium size, attractive when ripe and hangs remarkably well to the tree. It does not drop even when fully mature, though easily picked. The quality is fair to good, juicy, firm fleshed, fine-grained. The firmness of flesh is quite marked, this firmness persisting after the fruit is ripe and allowing the fruit to be held in a ripe condition without deterioration for from two to three weeks, an unusual quality in a pear. Fruits ripened on the tree seem to be of as good quality as if picked earlier and ripened in the usual way. Season late September. Propagation will be made in 1925.

Vegetable Breeding.—A preliminary distribution of a new hybrid corn, a cross of Golden Bantam and Black Mexican, was made in 1924. Practically all growers reported favourably, especially on its quality which is as good or better than Bantam. This new corn is yellow, eight rowed, and with very uniform straight cobs. Canners Seeds Limited consider it sufficiently promising to warrant extensive field test.

A particularly fine strain of Iceberg lettuce has been tested here for three years. This is the O.A.C. No. 1-4 originated by Prof. Crow. It is earlier than other Iceberg strains tested and is very uniform and of desirable type.

The Des Moines Table Queen squash received from the Iowa State College is a valuable addition to this type of vegetable. It is a strictly high class table

squash of small size, one squash being sufficient to nicely serve two persons. Table Queen is rapidly gaining in favour in sections of the United States where its good qualities have become known.

In cabbages a breeding project to secure an early cabbage of desirable characters has been under way for some time. This work was started by the Department of Horticulture at Guelph but in 1920 the seed was turned over to this station for further breeding and selection. Three varieties were used in crossing—Copenhagen Market, Jersey Wakefield and Tender Eight Weeks. Reciprocal crosses were made and we now have third and fourth generation selections. In a comparative test in the spring of 1924 several of these selections produced earlier and heavier crops than standard commercial varieties, including the new Golden Acre. Further selection is necessary to fix the type before propagating for seed.

EXPERIMENTAL WORK

Nursery Stock Identification.—The work started in 1923 was carried forward another season and excellent progress made. As a result of this work the elimination of mixture in apples, pears and plums in the nursery row is no longer a mere possibility. It can be done with almost if not absolute certainty. In peaches most mixtures can be detected and in cherries there is good reason for believing that varieties untrue to name can be detected. Certain points in varietal identification, using leaf and other characters, have been discovered. There is much yet to learn and further work should be done along this line especially with peaches and cherries. The knowledge already gained should be applied in some way so that grower and nurseryman may benefit.

Considerable mixture was detected in peaches, plums and apples in various provincial nurseries. These mixtures were brought to the attention of the nurserymen by whom the proper precautions to separate these mixtures were taken.

Apple Pruning.—The experiment in progress in Section 7 has been completed. This orchard will in future be used for some preliminary work with sod mulches. The pruning experiment has been reported on from time to time through the medium of various periodicals, circular letters, etc., so that no further report seems necessary.

Staking Tomatoes.—Two years' work with staking tomatoes for the production of early fruit has given interesting results. Five varieties have been used, Earliana, Norfolk, Bonny Best, Grand Rapids and Atlantic Prize. The test was for earliness of fruiting as compared with ordinary field culture. In 1923, yields to August 10th showed an increase of approximately sixty-five per cent. per plant from staking. In 1925, yields to August 15th, or early season yields, showed an increase from staking of 175 per cent. per plant. The total yield per acre for the whole season was approximately the same for each plot. The differences were in the early yield. Also in staking, there are considerably more plants per acre, hence if the above results were calculated on an area basis the differences in yield would be even more striking. Against these increases in yield there must be set, of course, the increased costs of production, which are considerable.

Variety Tests.—A large number of new varieties of fruits have been added to the station orchards. In particular the newer varieties of apples from the C. E. F., Ottawa, and apples, pears, plums, grapes and small fruits from the New York Experiment Station have been secured and planted. A fairly

extensive planting of California Cling Stone canning type peaches has been made with a view to semi-commercial test of the leading varieties for Ontario conditions.

Extension

Several growers in selected parts of the district are co-operating with the extension service in the carrying out of simple orchard trials of nitrate applications to bearing peach trees, and of fruit thinning. It is hoped to further extend this type of work.

Five circulars were sent out during the year as follows:

No. 24—Pruning Bush Fruits.
" 25—Nitrogenous Fertilizers in the Orchard.
" 26—Commercial Fertilizers for Vegetables.
" 27—Green Manuring Crops and Cover Crops.
" 28—Protect Your Fruit Trees Against Rabbits and Mice.

With these leaflets were also included circulars prepared by W. A. Ross, of the Dominion Entomological Branch, on the control of various fruit insects, spraying information, etc.

BRIGHTON COLD STORAGE

The total receipts of the Ontario Government Cold Storage for the fiscal year 1923-24 amounted to $2,931.23 which is $940.15 less than the previous year which amounted to $3,871.38.

The greater part of this drop in revenue was due to the renting of Room A to the Northumberland Fruit Growers Limited. This was done with the object of assisting the association in the problems of marketing which to a degree proved a success, but the market prices for apples for the entire season hardly paid for any kind of storage. Perhaps the greatest achievement in this connection was obtained through the fact that the association used the room for the purpose of precooling all shipments. Following up consignments of Greenings, Russets, Ben Davis and Ganos to Copenhagen, Denmark, Cape Town, South Africa, and to other United Kingdom markets in every instance, letters of great appreciation were received, stating the excellent condition of the apples on arrival at destination. The Danish and South African shipments were outstanding successes, as the consignees in both cases remarked that the association apples were the best shipments received from Canada.

The work of precooling the apples was carried out within thirty hours after picking the fruit. That is to say, the apples were picked and hauled to the packing house the first day, graded and packed the next day, and then immediately placed in the cold chamber for seventy-two hours prior to shipping.

The keeping qualities of the apples handled in this manner greatly excelled other methods of storing.

However, general opinion seems to be that in the Lake Ontario apple district—east of Toronto—a cold storage is not a great asset to the fruit industry at the present time, in view of the fact that the majority of apples produced are of a hard winter-keeping type, which in average years hold up well under a proper system of common storage. Apples of this type do not lend themselves to the extra expense of cold storage as they do not command the high market price of the better dessert varieties.

It is estimated that 75-80 per cent. of the apples produced in Northumber-

land and Durham counties are of the hard export kinds, while the balance may be said to consist of such varieties as Wealthy, Snow, McIntosh, Greening, Spy and Golden Russet.

On the other hand a precooling plant, favourably situated such as in the Niagara Peninsula, should prove more of a financial success both from the Government and grower's standpoint owing to the volume of other fruits and the good dessert varieties of apples grown.

Throughout the past three seasons observations were made on the keeping qualities of apples in order to ascertain the probable cause of waste in both common and cold storage with the following conclusions: That the type of soil, the age of trees and cultural methods, followed together with the quality and condition of fruit produced had a direct bearing on the keeping quality.

In general terms apples produced on young trees were poor keepers and shippers as compared with older trees; apples grown on clay loam had better keeping qualities than either on sand or heavy clay soils, while bruised and poor conditioned fruit only held up a short time as compared with the careful handled. The loss from rough handling borne by the average grower is estimated at 10-15 per cent., which in some years means a difference of profit and loss. At times there is seen as high as 40 per cent. waste traceable to rough handling in picking, packing and storing.

The experiments with celery proved practically a failure owing to the basement room being utilized without proper insulation, which resulted in the impossibility of controlling the humidity.

In addition to supervising the cold storage several lectures were given in connection with the three months' short course, besides regular meetings with the growers in the eastern apple growing counties.

Grafting demonstrations were given to the growers to the extent of over a hundred trees embracing both top working to better varieties and bridge grafting to trees that had been badly girdled by rodents. Fertilizer experiments were conducted with gratifying results.

To demonstrate the necessity of thorough spraying to the growers, six orchards were given close supervision while one orchard was taken over as a demonstration orchard.

Towers were built on the spray machines for the growers in order to facilitate thorough spraying of every part of the tree. Microscopic observations were made of the leaves at regular intervals so as to warn the growers to make spray applications just prior to the bursting of the spores. In every instance this service proved of great value, as the orchards sprayed thoroughly according to observations have turned out the cleanest fruit. The demonstration orchard which had four liquid applications and one dusting harvested ninety per cent. clean fruit as compared with thirty-four per cent. of the previous year. Orchards receiving supervision gave excellent results according to growers.

Throughout the growing season, timely weekly bulletins were sent to all the fruit growers in Northumberland County, stating exactly what should be done in the orchards.

COLONIZATION AND IMMIGRATION BRANCH

The following table gives figures which will indicate the outline of the work accomplished for the fiscal year ending October 31st, 1924:

Number of farm labourers placed	4,267
Number of domestics who passed through the Canadian Women's Hostel, 72 Carlton Street, Toronto	2,301
(Of this number, 1,343 were new arrivals)	
Number of farm labourers placed by the Salvation Army	135
Number of domestics placed by the Salvation Army	889
Number of boys placed by the Salvation Army	273
Number of railway certificates to settlers proceeding to Northern Ontario (consisting of 680 adults and 49 children)	585

Of the four thousand two hundred and sixty-seven placed on farms in Ontario during the past fiscal year, two hundred and thirty-four were women (wives) and three hundred and fifty-one were children. At least ninety-six per cent. of the men were from the British Isles, and with the exception of those from the Hebridean Islands were a very good type of agriculturist.

The farmer (employer) in many instances expressed himself as very much pleased with the class of help sent him.

As in previous years parties of farm workers, numbering from fifty to two hundred, were organized by the London, England, office; put in charge of a conductor and on arrival in Canada were met at the port of landing by a representative from this office, who fitted them to their individual places of employment and distributed en route. This method of distribution has proven very satisfactory from the standpoint of dispatch, and in a saving of expense to the immigrant, as it practically permits him to make his journey from home to his future place of employ without delay, and prevents the possibility of having to double back over territory already travelled.

Other nationalities placed were Swiss, Danes, Hollanders, Finlanders, Swedes and Norwegians, who although handicapped by their inability to speak English, gave fairly good satisfaction and we received a number of satisfactory reports from their employers. Generally speaking, however, the Ontario farmer prefers the Britisher, and when obtainable, will not consider the non-English-speaking experienced farm worker.

LONDON OFFICE

One of the main functions of the London Office is to promote the migration of farm workers and domestic servants to Ontario. No tradesmen or industrial workmen are sent out. During the past year we have sent to Ontario the following agricultural workers:

ANALYSIS OF SETTLERS SENT OUT BY THE LONDON OFFICE
YEAR 1923-1924

	Assisted	Paid own fare	Total	Capital in their possession
Single men	628	458	1,086	£10,215
Married men	7	53	60	1,144
Married couples	11	15	52	760
Families	24	31	109	1,614
Children	...	...	210	.....
STORNOWAY				
Single men	279	5	284	1,145
Families	...	1	2	.....
Children	...	...	6	.....
CAPITALISTS (Agriculturists with over £500 each)				
Single men	...	4	4	3,200
Married men	...	3	3	4,344
Families	...	2	4	1,100
Married couples	...	1	2	900
	949	573	1,828	24,422

Free transportation was also arranged for 159 children—£1,543 approximately.

An effort should be made to get a greater number of farmers in Ontario to take married men, who would be likely to give better service than single ones, and would be less likely to leave employment.

While it is difficult to induce large farmers in this country to sell their property and take up farming in Ontario, there is no doubt that there are thousands of agriculturists, possessing little if any capital, who would jump at the chance if suitable arrangements were made for their reception and settlement, and possibly their supervision for a time.

Boys of suitable antecedents and temperament from good private homes, carefully selected on this side, and as carefully settled and watched over in Ontario, would prove the best class of settlers who could possibly be sent there.

Following are particulars regarding some with capital who were sent to Ontario during the year to take up farming on their own account:

P. McE.—An Irishman with a capital of £500 and the possibility of £2,000 more, proceeding to take up farming on his own account.

R. B.—Another Irishman. Capital £900. Wishes to gain experience with the idea of eventually purchasing a farm of his own.

F. G.—A retired Captain of the Indian Army, with a capital of £1,000. Wishes to gain experience on a dairy farm with a view to purchasing a farm for himself.

J. C.—From Malta. Taking with him a capital of £1,500 with which he purposes purchasing a property. Taking with him his wife and five children.

W. B.—A London man with a capital of £800 upwards. Desires to engage in bee-keeping, small fruit and vegetable growing.

A. K.—From Ireland, proceeding with the intention of gaining experience in Canadian farming methods. Capital £500.

G. O'C.—An Irishman proceeding to Ontario to gain practical experience on a Canadian farm. Has a capital of £1,000.

S. C.—Still another Irishman, proceeding with his wife and child to take up work on a farm in Canada. Has a capital of £500.

G. H.—Ireland. Has a capital of £900, and is travelling to Canada, accompanied by his wife, with a view to gaining experience and to take up farming on his own behalf.

W. M.—Ireland. Proceeding with his wife and family in order to gain experience of Canadian farming before investing his capital of £600 in a farm of his own.

During the year we have sent 452 women household workers to Ontario, practically all of them trained as domestic servants, and who were able to furnish thoroughly satisfactory references from previous employers.

CORRESPONDENCE AND CALLERS.—The volume of correspondence during the past year has been very considerable, the total for the year ending October 31st, 1924, being:

Inward letters	42,694
Outward letters	51,494

During the past year there were 8,090 visitors to the office on business.

LECTURERS.—During the spring we had the services, as lecturers, of Captain Frank Stewart, Mrs. Horace Parsons, and Miss Constance Boulton from Ontario. They all did useful work.

PUBLICITY.—During the period between November 1st, 1923, and December 1st, 1924, 288,068 booklets, etc., advertising the Province of Ontario, were carefully distributed from this office.

Displays of Ontario produce, etc., were made at the Dairy Show in London, and also at the Imperial Fruit Show in Manchester. Ontario achieved a remarkable success at the Dairy Show, taking first and third prizes for Colonial Cheese against the competition of all the Overseas Dominions.

CO-OPERATION AND MARKETS BRANCH

The past year or two have been trying ones for all types of business. The merchant, the manufacturer, the banks, the farmers' marketing organization, each has been going through a difficult readjustment period. The farmers' co-operative marketing organizations, however, generally have met the adverse business conditions as successfully as any, and comparatively few failures of co-operatives have been reported. On the other hand, important new organizations have been formed and many of the older marketing organizations have strengthened their positions. What appeared to be a crisis in the business life of some of the co-operatives has been successfully passed, and the prospects of continued usefulness appear to be bright.

As noted in previous reports, the organization of co-operative marketing organizations is taking place on the basis of commodities. Usually the major farm products are the ones which first receive attention; wheat in the Canadian West, citrus fruits in California and Florida; cotton and tobacco in the Southern States; potatoes in Maine, etc. In Ontario, however, the major farm products seem to have some difficulty in getting on a sound commodity co-operative basis, and it is some of our minor products which are more highly organized for marketing.

Turnips.—The latest addition to commodity organizations is that of table turnips. This product is grown largely in the four counties of Wellington, Waterloo, Brant and Oxford, and is sold mainly in American markets, where it is known and quoted as Canadian Ruta Baga. Ruta Bagas are shipped to many markets from Buffalo to New Orleans, and exporting has been done by a number of produce dealers operating over the production area. The producers incorporated a company known as "The Ontario Turnip Growers' Co-operative Limited," and during the summer a campaign for membership was inaugurated by the promoters. This resulted in about 1,200 producers signing up as shareholders in the marketing company. Each shareholder is required to sign a marketing agreement with his company, whereby he agrees to the exclusive use of the company as his marketing agent for table turnips. This agreement is similar to those adopted by other commodity organizations. It is significant of the change taking place in the attitude of producers towards co-operative marketing, when a contract of such a binding nature is signed by more than a thousand growers within a limited territory in the course of a few months.

The above company is now shipping turnips to the United States markets, and endeavours are being made to load cars according to grades. The assistance of the Fruit Branch of the Dominion Department of Agriculture has been enlisted in formulating and enforcing grades for Ruta Bagas, and it is expected that if these tentative grades prove satisfactory, they will be adopted and enforced generally for trading purposes. The establishment of legal grades for this product is of great importance. It is mainly an export commodity and without grades the distant and foreign purchaser lacks a definite basis upon which to determine price value; the lack of grades also facilitates (on a declining market) rejection of cars or claims which are hard to adjust, especially where such great distances separate the seller and buyer; the value of a bushel of turnips at the loading point is very low as compared with the delivered value, most of the delivered value being in the freight; any loss therefore on account of quality must come out of the already low value at shipping point, as obviously it cannot

be taken out of freight. For these and other reasons the producer of this product suffers seriously without legal grades, and it is hoped that the co-operative company will be successful in putting the trade in turnips on a graded basis.

Honey —As noted in last year's report, the Ontario Beekeepers Association at the 1922 convention instructed a committee to organize a marketing company. This company was incorporated in April, 1923, as the "Ontario Honey Producers Co-operative Limited," and consisted at that time of 358 shareholders. For these shareholders, a crop of approximately 4,812,000 pounds was marketed the first year. At the present time there are 849 shareholders of the company producing and marketing about eighty-five per cent. of the commercial honey crop of the Province, a fact which demonstrates that the beekeepers of the Province generally approve of the co-operative method for distributing this commodity. In a normal year it is estimated that the present membership of the company will produce about 8,000,000 pounds of honey.

In this company, also, the members are under contract. The contracts are for three years and expire March 1st, 1926, after which they are self-renewing from year to year until cancelled by either party. The company considers the contract one of the chief sources of strength, as it assures the company a large volume of honey to handle, and the handling cost per pound, therefore, being very small.

The honey is handled on a yearly pool basis according to the different grades and the producers receive the average net price secured for the pools into which his product grades. Blue pails are used for the light grade and red pails for the amber and dark. Each producer has his registration number stamped on the lids of his containers. No names appear on the company packages. Any complaints that are received regarding the quality of the honey, by the company, are traced to the producer through the numbers on the lids. The producer grades for colour according to a standard colour grader furnished by the company, and sends in a guaranteed average sample of each grade of honey packed by him. This applies whether the honey is ultimately sold on the local market or through the company. A check-up system has been adopted by the head office of the company to confirm the grading of the beekeeper and in this way a province-wide system of grading has been worked out. For the light grade honey in the blue pails, a brand name, "Beekist," has been adopted and has quickly made an important place for itself on the market.

The honey is marketed in a number of ways. For local markets the shareholders act as the local agents of the company. They are furnished from time to time with the prices of Beekist honey, at which prices sales are made and a full report made to the company in the regular company form. All such sales of his own honey by the individual beekeeper bears its proper share of all overhead expenses of the company.

For distant markets the honey is assembled for the most part at some ninety-five car-lot shipping points throughout the Province. The shareholders are arranged in groups according to these car-lot shipping points and each producer delivers his honey to his shipping point. From that point to the consumer, the company bears the expense. It has been found that by proper routing, large savings can be affected in freight costs alone. Previously cars of honey passed one another on the railroads, and there was entirely too much cross shipping. Practically the whole of that has been eliminated, and the Ontario crop now goes to its various markets by the shortest possible routes.

For domestic markets, the company may sell direct to the wholesalers or retail trade. For distant and foreign markets, brokers or agents may be employed

and through these agents the company is kept in touch with the situation on these markets.

A well-equipped bottling plant, the best in Canada, is maintained at Dunnville, in the Niagara Peninsula. Around six and eight cars of bottled honey is the yearly average output. A considerable service is being done by this bottling plant, also, in reconditioning honey which has not been properly ripened. This reconditioned honey, of course, cannot be packed as "Beekist" honey, but it is finding a ready and profitable market as manufacturing honey.

The general progress of this company to date has been somewhat remarkable, especially in view of the fact that in their first year of business they discovered there were at least 1,500,000 pounds unsold in the producers' hands from the crop of the previous year. It was necessary, therefore, for the company to market not only the crop which it was under contract to sell for its shareholders, but this 1,500,000 pounds as well. Under similar conditions, with unorganized marketing, well-informed honey men state that the price would have been six to seven cents per pound. The company, however, was able to return to its members close to ten and one-half cents per pound.

The excellent results so quickly obtained by this company have been brought about by grading and branding their product, by stabilizing prices to the trade, by extending the markets both domestic and foreign, and by affecting many important savings in the preparation and shipment and in the purchase of supplies.

The Department assisted the producers of honey to the extent of meeting the travelling expenses of the general manager of the company in investigating foreign market conditions for Ontario honey. The results have been amply justified. Before his return, he forwarded orders for the immediate shipment of thirteen carloads, and since then regular shipm nts have been going forward to a number of European countries, more especially to Great Britain, Holland and Germany. This season's shipments to Holland and Germany alone will be about one-half million pounds, and this mainly our amber and dark grades, which are somewhat difficult to dispose of in our home markets. Ontario honey is now regularly going forward to European countries where dealers or consumers never heard of Ontario honey before, and the quality of the product is making a permanent place for itself in the markets of the world.

Tobacco.—Tobacco is another commodity-marketing organization, organized in 1920. This firm has had a varied career due to an exceptionally large crop the first year of its operation. The preparation for market is an expensive process, necessitating hand grading and special drying machinery, and with large crops a considerable proportion of the tobacco has been carried along unsold. This evidently has been a handicap hard to overcome, but this year the company appears to have attained a greater degree of success than formerly, and the shareholders are optimistic as to the future.

Wool.—As in former years, Ontario wool has been marketed on a graded basis through the Canadian Co-operative Wool Growers Limited. This year between 650,000 and 700,000 pounds of Ontario wool was marketed by the company for some 4,000 producers. This same company also markets for sheep men's and sheep breeders' associations over the Dominion.

Beans.—Bean producers in the special districts in Elgin, Kent and Huron Counties affected a marketing organization on the contract basis during the year. It was found impossible, however, to complete arrangements for cleaning and elevator accommodations, and the company has not yet operated.

Other Organizations

A complete list of co-operative organizations in the Province would contain many important business concerns, some of which have been in successful operation over a considerable period of years. Some of these have been mentioned in previous reports of this Branch. The co-operative shipping of live stock, egg and poultry marketing, co-operative cheese marketing, alfalfa and clover seed, registered seed of cereal grains, celery from the Thedford District, tender fruits and early vegetables from the Niagara and Leamington districts, grapes, fluid milk in Essex County, local potato-marketing organizations, the numerous and important marketing activities carried on by the United Farmers Co-operative Company and many other illustrations that might be mentioned give some indication of the multiplicity of co-operative endeavours being carried on over the Province. The statutes make no provision whereby statistics as to co-operative organizations in the Province may be obtained.

New Incorporations

Co-operative corporations incorporated under The Ontario Companies Act during the year include the following:

Name	Head Office	Authorized Capital
Culross Farmers' Co-operative Co., Ltd.	Teeswater, Ont.	$10,000
Belwood Farmers' Co-operative Co., Ltd.	Belwood, "	$10,000
Oliver Co-operative Dairy Co.	Oliver, "	Without share capital
Prince Edward Live Stock Co-operative, Ltd.	Picton, "	$14,000
Port Rowan Co-operative Co., Ltd.	Port Rowan, "	$10,000
Wanstead Farmers' Co-operative, Ltd.	Wanstead, "	Without share capital
Ontario Turnip Growers' Co-operative, Ltd.	Woodstock, "	$50,000
Cochrane Co-operative Dairy Co., Ltd.	Cochrane, "	$10,000
Matheson Co-operative Dairy Co., Ltd.	Matheson, "	$10,000

English Market Cable

The agent-general for Ontario in England, forwards a cable on Thursday morning of each week giving a summary of market prices for some of the more important products exported to that market from Ontario. These include meats, live stock, bacon, cheese and butter, and apples in season. Prices received for these products from Denmark, Ireland and other exporting countries are also given. Each fortnight the agent-general also forwards a letter giving a summary of general market conditions and helpful suggestions and opinions of interest to producers and exporters in Ontario. These cables and reports are given immediate distribution through the agricultural press.

Seed Cleaning Plants

During the year some information was gathered as to the number and location of power seed cleaning machines in operation in the Province. A total of about 210 machines were listed, 145 of which are in Western Ontario and sixty-five in Eastern and Northern Ontario. Of these machines, about 100 are reported as available to the farmers in the community for seed cleaning purposes; twenty-one are not so available, being for the private use of the owners in elevators or mills; and for the remaining eighty-nine no information

on this point is at present available. No doubt, a considerable number of these latter would be available for local seed cleaning purposes, and the suggestion that groups of farmers in the vicinity of these machines might properly approach the owners with the purpose of a wider use of the machines, is worth considering. Some of the power seed cleaning plants are now owned by producers, such as the Cottam Farmers Limited, Cottam; Co-operative Supply Company, Kingsville; Kenora District Clover Seed Growers' Association, Oxdrift, and others. The Kemptville Agricultural School at Kemptville, Ont., is also cleaning seed for neighbouring farmers.

Loans in Northern Ontario

Under the Northern Development Act, administered by the Department of Lands and Forests, loans may be made to co-operative companies in Northern Ontario. Applications for loans, however, must be approved by the Minister of Agriculture. During the year two applications have been received and approved, namely, that of the Cochrane Co-operative Dairy Company, Limited, and Matheson Co-operative Dairy Company, Limited. Both of these are for a creamery at the points mentioned and these are now in the course of construction.

Community Halls

During the year, grants have been paid as follows under The Community Halls Act:

Name	Place	Total Value	Amount of Grant
Ignace Community Hall	Ignace, Ont.	$7,700 00	$1,925 00
Brooklin Community Athletic Field	Brooklin, Ont.	5,632 01	1,408 00
Reaboro Community Hall	Reaboro, Ont.	6,582 76	1,645 69
Roxboro Township Community Hall	Moose Creek, Ont.	9,560 00	2,000 00
Crediton Athletic Field Community	Crediton, Ont.	3,402 92	850 73
Rosseau Community Hall	Rosseau, Ont.	12,003 96	2,000 00
Beamsville Consolidated School and Community Hall	Beamsville, Ont.	34,425 00	2,000 00

This brings the number of community halls and athletic fields in the Province upon which grants have been paid to a total of forty-six, while twenty-five projects are under way, and upon which applications for grants have been made. In all cases the initiative and enterprise of the people have been well repaid. In many cases it has meant real sacrifice and hard work on the part of the promoters. The Women's Institute, especially, has been active in forwarding community halls, and the attractive and useful community halls and athletic fields scattered over the Province are proving a real asset in broadening social life in the open country, especially for the boys and girls.

Miscellaneous

The usual work of the Branch has been carried on in giving assistance in organizing for co-operative marketing, in consultations with boards of directors of co-operatives, in preparing applications for incorporation and in framing by-laws and marketing agreements, in addressing meetings of growers, short courses, clubs, and conventions, and generally assisting in promoting co-operative endeavours over the Province.

AGRICULTURAL REPRESENTATIVE BRANCH

There is abundant evidence from the reports of our field men and from numerous outside sources that the County Branches of the Ontario Department of Agriculture are appreciated and utilized more each year.

While the agricultural representatives devote as much time as possible to personal interviews and farm visits, they realize that more can be accomplished by working with and through groups. Therefore much time and thought have been spent on organization and the development of local leaders.

During the year, resignations were received from the agricultural representatives in the Counties of South Simcoe, North Simcoe, Northumberland, Waterloo and Haldimand. Four of these men are now engaged in practical farming.

RURAL SCHOOL FAIRS

In spite of the multiplicity of the duties and projects which prevent the agricultural representatives from devoting the time and thought to school fairs which they deserve, these continue to retain and increase the interest of pupils and adults, and improve from year to year. During the season of 1924, 4,392 schools participated in 507 school fairs, which were attended by a total of 162,054 children and 217,878 adults. The average number of entries was 529.3, an increase of 48.3 over 1923.

Except in some parts of Northern Ontario, junior crops were excellent and the exhibits from these correspondingly worthy. In some districts the late season with real harvest weather prevailing at fair time decreased the number of parents but the average attendance was about the same as last year. The pupils insisted on going after a year's anticipation and a summer's work, and the parents and admirers turned out also when possible. The carefully-planned, interesting programmes followed in most counties proved attractive and educational.

Type and uniformity characterized the 1924 exhibits selected and prepared by pupils with previous experience. The placing of all classes in order of award and the judges' reasons given in former years, in addition to suggestions sent out prior to the fairs, had educated pupils and adults to the standards by which judging would be done. This is the highest recommendation for rural school fairs.

High quality seed of recommended varieties and eggs and baby chicks from carefully-bred high-producing flocks were distributed by the Branch through the school fairs as follows:

Potatoes	1,386	bags
Oats, Barley and Wheat	338	bushels
Corn (Sweet and Field)	24,250	packages
Beets, Carrots, Onions, Parsnips	62,000	"
Mangels and Turnips	17,600	"
Flowers	60,000	"
Eggs (bred-to-lay Barred Plymouth Rocks)	12,868¼	dozen
Day-old Chicks (bred-to-lay Barred Plymouth Rocks)	2,265	chicks

SCHOOL FAIR STATISTICS

County	No. of Fairs	No. of Schools	No. of Pupils	No. of Plots	No. Doz. Eggs Distributed	No. of Baby Chicks	No. of Entries	Attendance	
								Children	Adults
Algoma	10	51	1,747	3,225	405	.....	4,669	2,125	2,350
Brant	8	58	2,362	1,598	124	.....	4,075	2,725	1,675
Bruce	17	145	4,200	5,800	370	.....	7,675	8,100	9,350
Carleton	9	88	2,275	3,101	284	.....	5,468	3,125	5,950
Dufferin	6	67	1,254	1,829	113	.....	2,215	1,350	1,125
Dundas	8	101	2,652	2,467	185	.....	3,720	2,450	2,800
Durham	12	89	1,920	2,643	232	.....	4,187	2,715	4,580
Elgin	14	132	3,420	3,810	825	.....	7,054	3,690	6,040
Essex	12	101	3,925	4,150	290½	497	7,311	5,175	4,250
Frontenac	10	132	1,757	3,476	175	.....	3,845	2,976	2,982
Glengarry	9	121	3,572	5,512	90	.....	4,904	3,630	2,550
Grenville	6	80	1,289	1,730	115	.....	3,055	2,600	2,200
Grey	19	190	4,905	5,723	430	.....	9,325	6,570	9,475
Haldimand	6	70	1,578	1,427	151	.....	3,825	2,200	3,550
Halton	8	56	1,910	3,968	160¼	.....	5,708	2,767	3,660
Hastings	8	130	3,300	3,145	155	.....	3,830	3,350	4,350
Huron	18	175	3,080	3,080	413	.....	10,055	3,625	11,800
Kenora	13	18	735	2,122	103	.....	2,336	924	593
Kent	12	143	4,870	5,496	702	.....	7,326	4,800	4,950
Lambton	13	159	3,617	6,545	451	.....	9,453	4,910	9,650
Lanark	9	85	1,344	1,271	250	.....	3,532	5,100	4,150
Leeds	10	116	1,900	3,100	148	.....	6,403	3,400	7,225
Lennox & Addington	10	87	1,779	2,816	80	.....	3,495	2,300	2,725
Lincoln	8	51	2,929	2,657	272	.....	5,444	3,050	2,825
Manitoulin	10	53	1,394	2,140	261	.....	2,884	1,650	1,550
Middlesex	10	100	1,980	2,990	198	.....	10,635	4,370	9,700
Muskoka & Parry Sd.	14	60	1,730	1,426	304	.....	4,690	2,395	4,785
Norfolk	8	98	2,300	2,685	365½	.....	4,266	3,600	11,050
Northumberland	9	92	3,289	3,102	278	.....	4,766	2,875	4,950
Ontario	17	120	3,695	5,874	392	.....	14,065	5,075	8,500
Oxford	10	104	4,581	4,330	251	.....	8,866	4,475	3,600
Peel	6	71	2,340	2,404	307	.....	3,631	3,950	2,800
Perth	10	56	1,823	2,200	131	.....	15,000	3,800	3,625
Peterboro	7	50	1,615	1,477	138	.....	2,721	1,800	5,400
Prescott and Russell	11	77	2,150	2,045	105	.....	2,872	3,300	6,250
Prince Edward	8	70	1,625	4,255	141	.....	3,674	1,600	2,050
Rainy River	12	54	2,595	3,145	319	.....	3,817	2,970	1,620
Renfrew	8	58	1,432	1,378	154	.....	3,582	3,005	3,005
Simcoe, North	8	92	2,625	4,010	194	.....	4,945	3,050	3,125
Simcoe, South	8	105	3,237	4,113	355	.....	4,998	3,100	3,375
Sudbury	9	70	2,200	2,200	413	.....	4,310	2,700	985
Timiskaming	10	24	590	944	98	.....	1,497	360	303
Fort William	7	21	593	1,113	112	.....	1,353	470	635
Port Arthur	8	30	830	1,857	138	.....	1,431	852	640
Victoria	14	92	2,323	2,970	336	.....	6,338	2,925	3,150
Waterloo	7	69	1,942	2,627	.....	1,768	4,878	3,900	5,900
Welland	8	75	2,831	2,831	367	.....	4,226	4,500	3,550
Wellington	12	106	2,438	2,757	211	.....	5,678	2,425	4,500
Wentworth	9	78	3,200	2,995	205	.....	5,855	3,500	3,725
York	12	122	6,460	5,936	571	.....	8,502	5,750	8,300
Total	507	4,392	124,138	154,495	12,868¼	2,265	268,390	162,054	217,878

SPECIAL EDUCATIONAL FEATURES

In addition to the regular classes, the representative and local committees included competitions and specials to encourage action and promote education along definite lines supporting county campaigns and projects. Stock-judging competitions and demonstrations have assisted in live stock improvement.

Poultry culling instruction and classes for standard grades of eggs were included in several counties. In fruit districts, additions to prize lists were made and judging contests in fruit and vegetables conducted. Canning, sewing and first aid contests were arranged for teams of girls in several districts, and health clinics were conducted in some.

To stimulate competition in each school, certificates of honour signed by the Minister of Agriculture and the local representative were awarded to the pupil securing the highest number of points. In several counties, challenge school shields have been supplied and the annual competition for these creates friendly inter-community rivalry and increases exhibits and interest. The Ontario County representative tried out another method of encouraging the girls and boys to strive for the top. The high boy and high girl from each school fair were taken on the "Ontario County Champion Trip." An extract from a report covers this departure:

"Thirty-four champion boys and girls travelled in the huge bus which left the north end of the county at 6.30 a.m., and arrived in Toronto at 10.30 a.m. At the Parliament Buildings the pupils were delighted to meet the Minister of Agriculture in his office and afterward inspect the Buildings, concluding with the pleasure of sitting in the members' seats in the Legislative Chamber while being addressed by the member for South Ontario.

"A pleasant hour was spent at the Royal Ontario Museum, and all enjoyed the inspection of two large departmental stores, at each of which they were banqueted. After the noon-day meal, one boy was heard to remark, 'If they call that a lunch, it was some lunch!' A group photograph was taken on the steps of the City Hall and each member of the party was presented with a copy. The bus left the city at 6.30 p.m., and by 10.30 the last boy was delivered at Brechin. Their trip will be remembered as long as they live."

The Wentworth high pupils in all schools to the number of sixty-five and their teachers were banqueted by the Arcade Company, Hamilton, and enjoyed an educational and interesting day's programme. Some champions from York County were also given a trip.

CHAMPIONSHIP SCHOOL FAIRS

The Championship School Fair is usually held in conjunction with the county agricultural society show or other large fair in a central location. This year they were held in the following counties: Brant, Halton, Kenora, Norfolk, Peterborough, Prince Edward, Rainy River, Oxford, Frontenac, Wentworth, Huron, Manitoulin and Welland. An extract is given from the report of the Oxford representative who has managed a championship fair for some years:—

"This year our Championship Fair included all the classes on the prize list, with the exception of the school parade and Strathcona drill, in which a change had to be made for the Championship Fair. Owing to the limited time, we are obliged to have all the school children unite, instead of making this a competitive feature. The pupils were lined up for the parade and were led around in front of the grand stand, headed by the Woodstock band, some of the members of the Board of Directors and one of the school fair directors on horseback carrying a flag. This was just in the nature of an exhibition of what the boys and girls could do. They gave a creditable exhibition of their Strathcona work, and in front of the grand stand were honoured by an address by Hon. John S. Martin, Minister of Agriculture.

"This year we had 1,110 entries as against our previous record of 771. Sixty-six schools were represented in the prize money. There were twenty-eight entries in the public-speaking, thirteen teams in the stock-judging, and nineteen teams in first-aid. These features will convey some idea of the interest being taken in the development of our Championship School Fair.

"The prize list is financed entirely by the Woodstock Fair Board, which this year amounted to $327.95."

Pure-bred animals have been given as prizes in the Oxford School Fair Championship Stock Judging Contest and in this connection an unsolicited letter received by the representative is encouraging. A copy follows:—

"About four years ago, Hubert got a little York sow as first prize for stock-judging at Woodstock. This sow has grown to be a wonderful breeder. In six litters she has raised seventy-two pigs, of which nearly all graded selects. She and her daughter raised twenty-four pigs last spring, nineteen of which graded select at the Ingersoll packing plant. We sold three for brood sows which would have passed for selects and had two smooths."

In several counties where no championship fairs were held, the winners in particular contests were brought together to decide the county champion or championship team. In Wellington, eleven sheep-judging school teams of three members each met at Fergus. In Grey, sixteen girls and four boys competed for a county championship public-speaking cup.

A chapter from the report of the Hastings County representative covers the 1924 public-speaking championship in that county:—

"One of the important educational features of our School Fairs has been the public-speaking contest. The warden of the county has presented two silver cups, one to the boy and one to the girl making the best speech at the Rural School Fairs. The boy and girl winning at each School Fair is entitled to speak in the final public-speaking competition held in Shire Hall, Belleville, during the December session of the county council. Last December, fourteen boys and girls spoke in the finals. The competition was conducted by a special committee composed of members of the county council who acted as judges. The presentation of the cups was made by the warden immediately following the announcement of the winners by the judges. Over three hundred people from all parts of the county were present."

The effect which school fair distribution of good seed has on the agricultural production may be illustrated by the accumulated results reported from a five-pound bag given to a South Simcoe boy in 1921.

In 1922 the boy's uncle bought from the boy the production from his plot and planted all. In 1923 the potatoes from the larger area were used similarly. In the spring of 1924 the farmer sold seed to eight of his neighbours, five of whom in addition to himself (a total of six) were successful in having 2,000 bags pass as Government Certified. As seed stock of this high standard is worth at least 50 cents per bag above commercial potatoes, $1,000 was realized because of the better stock distributed through school fairs.

HOME GARDEN CONTESTS

It has been found that the average farm family should get about half of their living directly from the farm. To do this there must be an efficient kitchen garden, which is lacking in many cases in Ontario. With this in mind, a system of contests was organized in 1916, and has been continued and enlarged each year until 1924 when seventy-five contests in thirty-six counties were conducted with 895 boys and 778 girls competing. An opportunity was thus presented to young people past the school fair age and grade to continue in a competitive and agricultural way the agricultural advancement commenced while eligible in the regular school fair classes.

The numerous kinds of vegetables of the best varieties afforded an ample supply of green stuff for the family table throughout the season and some for canning and storing. Several of the vegetables were introduced for the first time on many farms and the varieties were often found to be superior to those used in the regular gardens. This contest is particularly appreciated in the newer sections of Northern Ontario where the representative is frequently asked to name a vegetable and give its preparation and use.

The gardens were judged and prizes awarded by the representatives in July and August, and plate and canned exhibits were made at the school and fall fairs.

The seeds distributed at 50 cents per package, sufficient to plant a plot 30 feet by 40 feet for hand cultivation or ten rows 75 feet long for horse work, were as follows:—

Beans—Golden Wax.
Beets—Detroit Dark Red.
Cabbage—Copenhagen Market.
Carrots—Chantenay.
Citrons—Colorado Preserving.
Corn—Golden Bantam.
Cucumbers—White Spine.
Lettuce—Grand Rapids.
Onion Seed—Yellow Globe Danvers.
Onion Sets—Yellow.
Pickling Onions—Barletta.
Parsnips—Hollow Crown.
Peas—American Wonder.
Radish—Scarlet White Tip Turnip.
Squash—Warty Hubbard.
Swiss Chard—Silver.
Spinach—Victoria.
Tomatoes—Bonnie Best.

A quotation from the report of the Haldimand County office may be of interest:—

"Very favourable comments were made by the spectators at the different fairs on the home garden displays. In some home garden exhibits, as high as thirty-one pint jars of canned vegetables were exhibited. Excellent records were attached to the exhibits. It might be of interest to mention just one."

Copy of Record Attached to Frank Knight's Home Garden Exhibit at Dunnville Fall Fair

Vegetables Canned from Home Garden:

Beets—2 one-quart jars.
Pickling Onions—1 pint jar.
Beans, while green for pickling—2 quarts.
Cucumbers, small—1 pickled can and one quart of medium-size ones.

Vegetables Sold from Home Garden:

Lettuce, 125 heads at 5c	$6 25
Spinach, 6 bunches at 5c	30
Radish, 5 bunches at 5c	25
Cucumbers sold	35
Beans, 3 six-quart baskets at 25c	75
Swiss Chard, 4 bunches at 5c	20
Cabbage, 2 heads at 5c	10
Tomatoes, 1 six-quart basket	25
Corn, 1½ dozen at 25c	38
Onions, 8 bunches at 5c. a bunch	40
Carrots, 3 bunches at 5c. a bunch	15
Beets, 1 six-quart basket	25
Beets, 11 bunches at 5c	55
Pickling Onion Seeds, one-quart basket	10
Total	$10 28
Second prize at Dunnville Fair	2 50
	$12 78

POULTRY BREEDING STATIONS

The outstanding success of the Ontario poultry breeding stations scheme, ever widening in its influence, demands the attention of all interested in agricultural advancement. Having been started in a humble way to meet the increasing demand for well-bred eggs for school fair distribution, the movement has now grown to have a very vital effect on the poultry industry of the Province. In 1924 12,823½ dozen eggs and 521 baby chicks were distributed at cost to school fair competitors. Neighbouring farmers appreciating the performance of these flocks ordered over 7,594 dozen and 1,100 baby chicks and bought 924 cockerels for breeding purposes. The accumulative result of previous years' distribution was far greater because thousands of pure-bred flocks have replaced those of nondescript breeding and mediocre productive capacity

formerly kept. These one-time school fair participants and their parents have been selling to their neighbours and so on in endless chain fashion.

The principle is that while the operators—several in each county—control and manage their own flocks they must submit to rigid culling annually, and are furnished with carefully-bred and selected pedigreed cockerels each year. In addition they have the advice of the agricultural representative and of the Ontario Agricultural College experts which they appreciated greatly and practice. Professor W. R. Graham and his staff are, therefore, in control of the breeding and to a degree the general management of these flocks, the eggs from which are so widely distributed. The demonstrated economic production from these birds and the culling demonstrations and poultry meetings which have been held annually at these stations have created a keen interest in poultry knowledge and a demand for culling and other assistance.

TABLE OF POULTRY-BREEDING STATION STATISTICS FOR 1924.

County	No. of P.B. Stations	No. of Hens and Pullets	No. of Cockerels	No. Doz. Eggs for School Fairs	No. Doz. Eggs to Farmers	No. of Cockerels to Farmers
Algoma	5	320	16	172⅔	73	8
Brant	5	488	24	124	67½	19
Bruce	6	571	30	440	123	51
Carleton	5	545	23	262	99	....
Dufferin	4	295	14	123	161	....
Dundas	4	450	....	182	....	....
Durham	8	425	22	237½	180	....
Elgin	8	993	45	854	391	175
Essex	3	350	15	300½ (521 baby chicks)	272	26
Frontenac	4	510	22	175	76	38
Glengarry	1	150	7	87	54	8
Grenville	4	193	11	115	....	....
Grey	8	388	26	276	25	7
Haldimand	1	140	7	151	110	31
Halton	4	910	29	....	....	....
Hastings	2	385	12	166	70	....
Huron	2	600	20	489	1,000	....
Kenora	4	146	9	63	9	....
Kent	6	769	37	710	313	73
Lambton	4	461	20	404	192	56
Lanark	4	230	11	249	....	....
Leeds	7	561	22	142	93½	12
Lennox and Addington	3	145	9	80	220	9
Lincoln	3	380	17	270	130	....
Manitoulin	7	369	20	261	....	....
Middlesex	4	305	19	198	855	23
Muskoka and Parry Sound	3	285	15	316	....	....
Norfolk	3	310	10	195	140	20
Northumberland	6	670	32	560	250	50
Ontario	5	650	29	417	418	38
Oxford	4	571	74	258	355½	53
Peel	3	369	18	301	102	22
Perth	1	135	95	141⅔	71⅔	25
Peterborough	2	165	9	138	90	7
Prescott and Russell	3	288	16	105	15	18
Prince Edward	3	188	12	140	....	....
Rainy River	10	518	20	353	39	8
Renfrew	5	254	14	154	23	22
Simcoe, North	4	375	19	222	117	17
Simcoe, South	2	310	120	347	298	64
Sudbury	5	230	15	420	....	....
Thunder Bay—						
Fort William	2	260	11	112	....	....
Port Arthur	5	380	18	138	262	6
Timiskaming	2	270	10	....	(1,100 baby chicks)	....

TABLE OF POULTRY-BREEDING STATION STATISTICS FOR 1924.—*Continued*

County	No. of P. B. Stations	No. of Hens and Pullets	No. of Cockerels	No. Doz. Eggs for School Fairs	No. Doz. Eggs to Farmers	No. of Cockerels to Farmers
Victoria	5	322	23	324	129	35
Waterloo	4	400	21	226	50	3
Welland	6	440	21	411½	202	....
Wellington	2	500	24	195	160	....
Wentworth	4	233	14	203	323	....
York	6	325	13	615	25	....
Total	211	19,527	1,140	12,823½	7,594	924

SHORT COURSES IN AGRICULTURE AND HOME ECONOMICS

Since 1912 practical schools of agriculture for periods of four weeks or longer have been conducted by the agricultural representatives in Ontario counties. This year thirty-two were held with a total enrolment of 875, being an average of twenty-seven for each. This work has been greatly appreciated by the students and their parents, but most particularly by the representatives. It has been found that these boys, who are associated with the representative and his assistant, who do practically all the lecturing and demonstrating, acquire their viewpoint as well as absorbing some of the principles and practices of better farming and citizenship. The result is that these can be depended upon for support when a project is proposed for their locality.

Home economic classes, including foods and cooking, sewing, first aid, and associated subjects, were conducted concurrently with the agricultural courses. It has been found advisable to arrange schools for both the farm boys and girls at the same time and place. Members of a family may come together and groups plan to enroll which increases the attendance at both courses. There is an opportunity also to encourage social relationships which unite the young people of a community for effective organization and progressive work afterward.

THREE MONTHS' COURSES IN AGRICULTURE AND HOME ECONOMICS

Three months' schools similar to those conducted in 1921, 1922 and 1923 were attended in twelve counties as follows:—

County	Where Held	Agriculture		Home Economics	
		Number on Roll	Average Daily Attendance	Number on Roll	Average Daily Attendance
Essex	Essex	23	9	41	17
Huron	Exeter	30	14	34	22
Middlesex	Belmont	17	14	32	17
Wellington	Fergus	33	20	33	25
Wentworth	Ancaster	62	32	51	36
Peel	Caledon	20	10	41	16
North Simcoe	Barrie	30	18	36	21
Victoria	Lindsay	15	10	25	14
Frontenac	Kingston	31	10	40	17
Peterboro	Keene	38	26	56	34
Renfrew	Renfrew	14	10	34	18
Dundas	Brinston	42	28	51	22
Total		355	201	474	259
Average per course		30	17	40	22

This type of course has only one disadvantage when compared with the shorter one, that of persuading sufficient young people to devote the additional time. It has much in its favour. Naturally more can be absorbed in the longer period as after the first few weeks the students find it much easier to study and benefit by the lectures and demonstrations. Experts are engaged for each subject passing from county to county and the advantage of having the juniors of a district together for a longer time will be apparent.

That these courses are appreciated by the representative and the people where they have been conducted is proven by the fact that all four counties in which the original schools were organized in the autumn of 1921 have had courses each year since.

The comments from the 1924 report of the Peterborough representative are appended:—

"I am satisfied that from a standpoint of agricultural education, the three months' course is the best piece of work we have ever undertaken here, in that it has changed the viewpoint of a large number of farmers regarding our work and it has certainly been the means of influencing at least two or three of our students to obtain further knowledge. I have already been approached by three of the boys with reference to the courses given at Guelph and Kemptville. Two of these boys have definitely decided to attend either one of these institutions next year. I find that when visiting at the students' homes their parents receive us very graciously and are always willing to let their boys and girls take part in anything which we may have for them to do."

While the Department of Agriculture supplied the instructors and demonstration material, the local people arranged and were financially responsible for halls, heating and sundry expenses connected with accommodation. The Wellington county students set a fine example of independence in this matter. At Fergus the Junior Farmers' Improvement Association rented the hall in which both the girls and boys' classes were held. The other expenses were taken care of by the receipts from membership fees and entertainments and contributions.

EXAMPLES OF PROGRAMMES—PEEL COURSE, 1924

Agriculture

9.30	Roll call.
9.30–10.20	Plant disease.
10.20–11.10	Farm arithmetic.
11.10–12.00	Live stock—Principles of breeding.
1.30– 4.00	Beef, cattle and hogs—Judging on farm.

Home Economics.

9.30	Roll call.
9.30–10.20	Household arrangement.
10.20–11.10	English.
11.20–12.00	Poultry.
1.30– 4.00	Serving—Instruction and practice.

SHEEP AND SWINE MARKETING COURSES

The agricultural representative co-operated with the Sheep and Swine Division of the Federal Department of Agriculture in organizing and conducting special sheep and swine marketing courses. There were twenty-three sheep courses conducted and thirty-two swine courses, all of which were well attended.

In most cases this special work added to a regular short course and advertised, the older men being invited.

These demonstrations, lectures and discussions proved so helpful in live stock improvement that all concerned are enthusiastic about them.

The Industrial and Development Council of Canadian Meat Packers, the Canadian Swine Breeders' Association, the Federal and Provincial Live Stock Branches and the agricultural representatives again organized and conducted swine judging, grading and marketing courses at packing plants as listed.

Place	Date	Counties Included	Attendance
Hull, Canadian Packing Company's Plant	Dec. 11, 12, 13	Renfrew, Carleton, Lanark, Leeds, Prescott and Russell, Glengarry, Dundas and Grenville	52
Toronto (East), The Packing Plants	Dec. 11, 12, 13	Frontenac, Lennox and Addington, Hastings, Prince Edward, Northumberland, Peterboro, Victoria and Durham	64
Ingersoll, Packing Company's Plant	Dec. 11, 12, 13	Essex, Kent, Elgin, Lambton, Middlesex and Oxford	42
Toronto, Packing Plants	Dec. 18, 19, 20	Grey, Dufferin, Simcoe North, Simcoe South, Halton, Peel, York and Ontario	73
Brantford, Packing Plant	Dec. 18, 19, 20	Haldimand, Welland, Lincoln, Wentworth, Brant and Norfolk	47
Stratford, Whyte Packing Company's Plant	Dec. 18, 19, 20	Bruce, Huron, Waterloo, Perth and Wellington	45

Each county was permitted to send nine young men and was encouraged to select those who would make use of the knowledge gained by attempting to improve the type and management of hogs in their home communities. There is evidence to prove that this has resulted from former courses of similar nature.

OTHER SPECIAL COURSES

Numerous other short courses were arranged by representatives intended to meet the needs of the time in their respective districts. Co-operating with other branches of the Department and with Federal officers, schools were conducted for fruit packing, spraying, grafting and general orchard management, hog grading and meat work, dairying, poultry culling, vegetable culture, stock and seed judging, as well as various courses in the interests of women and girls.

JUNIOR FARMERS' IMPROVEMENT ASSOCIATIONS

There are Junior Farmers' Improvement Associations in the majority of Old Ontario counties, as these usually follow the short courses of one month or longer. Every club of this kind is useful, more particularly to the members but also, the community and those promoting progress in the county. In districts where the branches have been amalgamated in a county union greater results are attained. The county board organizes yearly programmes which promote activity and systematize effort.

Wellington may be taken as an example of a systematically organized county.

The County Junior Farmers' Improvement Association has organized the county into four community centres. Each centre consists of four communities. Each community centre held debating, public-speaking, dramatic, singing, hockey, and other contests between themselves. The winners of each centre competed in the finals at meetings arranged in May by the county executive. In this way the whole county was systematically organized.

On the evening of October 6, the Junior Farmers had their first county banquet in the armouries at Guelph, with four hundred junior farmers and their friends present. Some of the guests were:

Hon. John S. Martin
Hon. Hugh Guthrie
Hon. Lincoln Goldie
Mr. John Pritchard, M.P., North Wellington
Mr. R. S. Duncan, Director Agricultural Representatives
President J. B. Reynolds, O.A.C., Guelph.
Miss F. McNally, McDonald Institute, Guelph
Miss M. Brown, Elgin Junior Institute
Mayor Stephen, of Guelph

The dress was informal, and admission by ticket purchased a week in advance. After several excellent addresses interspersed by music, the following prizes were presented to winners in various contests in all projects during the previous year:

PRIZES AWARDED JUNIOR FARMERS AND WOMEN, WELLINGTON COUNTY, YEAR 1923-1924.

Winners

1. *Public Speaking*
   Raney Trophy ..... Fergus Club
2. *Debating*
   J. F. I. A. Silver Cup ..... Elora Club
3. *Hockey*
   J. F. I. A. Shield ..... Elora Club
4. *Dramatics*
   J. F. I. A. Shield ..... Rockwood Club
5. *Musical Festival*
   J. F. I. A. Shield ..... Hillsburg Club
6. *Choral*
   J. F. I. A. Shield ..... Fergus Club
7. *Piano*
   J. F. I. A. Cup ..... Elora Club
8. *Vocal*
   J. F. I. A. Cup ..... Fergus Club
9. *Violin*
   J. F. I. A. Cup ..... Hillsburg Club
10. *Recitation*
    J. F. I. A. Cup ..... Fergus Club
11. *Live Stock Judging*
    County Council Silver Cup ..... Eramosa Township Team
12. *Class Champions*
    Craig's Book—Judging Horses, etc ..... To 5 high men
13. *General Proficiency Short Course*
    "Live Stock," by Professor Toole ..... To 5 high men
14. *Inter-County Competition*
    Manning Doherty Silver Cup ..... Wellington County Team
    also
    Three Silver medals from Guelph Winter Fair, Peden Connell, Wallace Barbour, Fred Miller
15. *Girls' Judging Competition*
    Township Cup ..... Eramosa Township
    Women's Institute Shield ..... Fergus J. W. I.
    10 Books "Feeding the Family" ..... Ten highest individuals
    Miss F. McNally (Fountain Pen)
    Highest in Public Speaking ..... Eva Cheyne

16. *Girls' Domestic Science Contest*
Canadian National Exhibition
$13—1st cake, 8th Good Dressing.....Eva Cheyne
7—6th School Lunch, 9th Good Dressing.....Annie Oakes
5—6th in Cake.....Elizabeth Skeock
1—10th in Good Dressing.....Jessie Townsend

17. *Canadian National Stock Judging Contest*
14 prizes ranging from $2.00 to $28.00.

18. *Champion Judges*
Domestic Science Competition, C. N. E.
Guelph Chamber of Commerce Cup.....Eva Cheyne
Champion inter-county Live Stock Contest, Union Stock Yards, Toronto
Guelph Chamber of Commerce Cup.....Peden Connell

19. *Certificates of Honour*
Fergus Three-months Course.....1923-1924
11 girls and 8 boys.

20. *Shield for the Highest School*.....Nellie Broadfoot

The worth-while activities of Junior Farmers are so numerous that they cannot be given justice in this brief report, but a few which have been organized in a Provincial way shall be considered separately.

CHAMPION JUNIORS' TRIP TO CHICAGO

Junior Women's Institute and Junior Farmer Members to the number of twenty comprised the Ontario party which attended the National Boys' and Girls' Club Congress held at Chicago at the time of the 1924 International Fat Stock Show in November. These trips were offered as champion prizes to encourage competition, and this was accomplished. The group in charge of Miss K. M. McIntosh, Home Demonstrator, Peel County; and R. H. Clemens, Agricultural Representative of Wellington, was composed as follows:—

County	Name and Address	Champion in	Donor of Prizes
Durham....	Lawrence Dryderman, Bowmanville.....	Stock Judging	Durham County Junior Farmers' Improvement Association
Peel.....	Tindale Rutherford, Bolton, R.R. 2.....	Stock Judging	Peel County Junior Farmers'
	John Hamilton, Colgan....	Stock Judging	Peel County Junior Farmers'
S. Simcoe...	Gordon Brethet, Tottenham	Stock Judging	Municipal Bankers' Corporation
Waterloo...	Dan J. Lerch, Preston, R.R. 2.....	Stock Judging	Waterloo Trust & Savings Co.
	Lloyd Snyder, Elmira, R.R. 1.....	Stock Judging	Schneider Packing Company, and Waterloo Co. Shorthorn Breeders' Club
Wentworth.	Stanford Bonham, Jerseyville.....	Team Coach	Royal Bank, Hamilton
	Harry Gray, Puslinch, R.R. 3.....	Stock Judging	Ancaster Fair and S.S. No. 10, West Flamboro
	Stanley Howell, Jerseyville	.....	Paying own expenses
Wellington..	Earl H. Moore, Orton, R.R. 1.....	Team Coach	School Fair funds
York.....	Clark Young, Milliken....	Stock Judging	York County Council
	Thomas Hastings, Markham, R.R. 2.....	Stock Judging	York County Council

GIRLS

County	Name and Address	Champion in	Donor of Prizes
Peel	Miss Josie Harrison, Brampton, R.R. 1	Home Economic Judging	Peel County Junior Women's Institute
	Miss Lois Meldrum, Cheltenham	Home Economic Judging	Peel County Junior Women's Institute
	Miss Pearl Church, Streetsville	Home Economic Judging	Paying own expenses
S. Simcoe	Miss Agnes Todd, Churchhill	Home Economic Judging	Women's Institute
Wentworth	Miss Bessie Fearman, Dundas	Home Economic Judging	Ancaster Fair and S.S. No. 3, West Flamboro and Ancaster
	Miss Alleta Smith, Glanford Station	Home Economic Judging	*Hamilton Spectator*
York	Miss Lillian Hart, Newmarket	Home Economic Judging	Women's Institute
	Miss Margaret Watson, Woodbridge	Home Economic Judging	Women's Institute

COMMENTS OF SOME OF THE MEMBERS

Pearl Church, Peel County.—"The trip was crowded full of interest and enjoyment; each minute bringing something new to see and learn. Many wonderful things thought to be instructive were shown us."

John Hamilton, Peel.—"The Live Stock Show has meant the most to me. It has given me ideas of the different types of stock."

Lloyd Snyder, Waterloo County.—"We were particularly pleased with the grand international spirit of good fellowship shown toward Canadians."

Alleta Smith, Wentworth County.—"The educational value of the trip cannot be estimated. Agricultural representatives should solicit moneys from advertising agencies and enlarge the delegation for 1925."

J. G. Brethet, South Simcoe.—"To our embarrassment some of our American cousins did not know where Ontario was. However, after hearing the Maple Leaf and our Ontario yell, we feel sure that the Junior Farmers from here will be looked for next year."

EASTERN ONTARIO JUNIOR FARMERS' FIELD DAY AT KEMPTVILLE

The third annual field day for Eastern Ontario Junior Farmers was held at Kemptville Agricultural school on July 4th. Over 200 young farmers and their friends turned out from near-by counties. A well balanced programme of sports was conducted, the Champion County Trophy for which was won by Lanark.

After a picnic dinner, Premier Hon. G. Howard Ferguson addressed the young people in the Assembly Hall. As all departments of the school were open and as a tour of the farm was made, many questions were asked and those attending learned a great deal about the service the institution offers.

JUNIOR FARMERS' PLOWING COMPETITIONS

Accrued results from Junior Farmers' Plowing Competitions on home farms were evident this year in the improvement of the plowing, not only on the places where boys had previously competed but on neighbouring farms. In some counties plowing matches for juniors only were held, and in several others county plowmen's associations were formed because of the interest aroused by the Junior Home Plowing Competitions previously held. The Department of Agriculture assisted by paying half of the prize money up to $25.

JUNIOR FARMERS' HOME PLOWING COMPETITIONS, 1924

County	Name of Organization conducting Competition	No. of Competitors	Amount of Prize Money Paid	Amount of Grant Payable
Bruce	Walkerton J.F.I.A.	20	$52 00	$25 00
"	Port Elgin and Paisley J.F.I.A.	15	45 00	22 50
"	Teeswater J.F.I.A.	10	49 00	24 50
"	Ripley and Arkwright J.F.I.A.	7	36 00	18 00
Carleton	Carleton County J.F.I.A.	28	100 00	25 00
Frontenac	Kingston District J.F.I.A.	8	52 00	25 00
Grenville	Grenville County J.F.I.A.	10	33 00	16 50
Leeds	Leeds County J.F.I.A.	18	50 00	25 00
Lincoln	Lincoln County J.F.I.A.	7	51 50	25 00
Ontario	South Ontario J.F.I.A.	37	130 00	25 00
"	North Ontario J.F.I.A.	39	104 00	25 00
Rainy River	Rainy River Valley J.F.I.A.	12	50 50	25 00
Simcoe	Sunnidale J.F.I.A.	6	29 00	14 50
Waterloo	Elmira J.F.I.A.	14	50 00	25 00
York	York County J.F.I.A.	25	103 00	25 00

The following is an extract from the report of the Ontario County representative:—

Seventy-six boys and young men in Ontario County completed their plowing in our home plowing competition. Every township was represented; the smallest quota from a township was four.

Basis of Award

The judge considered conditions for the following year's crop, as well as crown, finish and general land. The decision was based on the following score card:

Shape of land	20
Straightness, evenness of width and depth	25
Packing and skimming	15
Crown	20
Finish	15
Ins and outs	5

I am a strong advocate of the Young Men's Home Plowing Competition. Learning to be accurate and painstaking in any undertaking has a good influence on a boy's character, and gives him more interest and pride in his job. Plowing, the basic operation of farming, is one of the easiest places to get the boy started.

INTER-COUNTY JUDGING COMPETITIONS

These contests continue to retain the interest of Junior Farmers, their elders and the general public. Teams of three young men under twenty-six years of age competed at the Royal (Toronto), Provincial (Guelph) and Ottawa Winter Fairs in 1924. The Royal competition was open to any team trained by a representative of a Department of Agriculture without any restriction; Guelph was open to the counties west of and including Victoria and Durham, while the Ottawa contest was confined to the counties east of this line.

INTER-COUNTY LIVE STOCK JUDGING COMPETITION HELD AT THE ROYAL WINTER FAIR, NOVEMBER 17th, 1924

THE JEFFREY BULL MEMORIAL TROPHY

COUNTY SUMMARY

County Standing	Horses	Beef Cattle	Dairy Cattle	Sheep	Swine	Total
1. Peel	508	460	425	486	519	2,398
2. Wellington	484	505	426	448	532	2,395
3. Perth	549	474	303	480	515	2,321
4. York	463	454	323	459	516	2,215
5. Waterloo	479	413	425	402	472	2,191
6. Huron	375	420	443	439	473	2,150
7. Oxford	454	425	347	443	458	2,127
8. Durham	375	479	357	455	448	2,114
9. Bruce	407	448	338	424	487	2,104
10. Wentworth	344	498	389	399	463	2,093
11. Lanark	485	389	402	413	391	2,080
12. Halton	404	428	413	331	478	2,054
13. Grey	350	462	370	381	481	2,044
14. South Simcoe	386	435	365	414	444	2,044
15. Victoria	370	413	327	454	438	2,002
16. Ontario	433	419	354	347	447	2,000
17. Kent	376	419	385	364	428	1,972
18. Brant	355	410	373	394	434	1,966
19. Middlesex	242	427	402	375	511	1,957
20. Carleton	386	376	327	378	471	1,938
21. Hastings	349	409	320	416	436	1,930
22. Frontenac	379	373	368	370	423	1,913
23. Grenville	431	391	331	329	421	1,903
24. Simcoe North	344	367	366	396	422	1,895
25. Peterborough	375	353	326	369	428	1,851
26. Lambton	328	389	344	318	448	1,827
27. Dufferin	338	360	370	359	387	1,814
28. Haldimand	350	365	295	356	441	1,807
29. Leeds	412	351	355	306	366	1,790
30. Queens County, P.E.I.	291	389	340	355	389	1,764
31. Elgin	305	395	325	334	402	1,761
32. Dundas	363	371	283	368	370	1,755
33. Lennox and Addington	279	381	271	356	413	1,700
34. Lincoln	306	395	308	282	369	1,660
35. Prince Edward	287	321	332	182	348	1,470

The Jeffrey Bull Memorial Trophy—won by Peel County.

Members of the winning team.—Harry Laidlaw, Brampton, Ont.; Harvey Parkinson, Brampton, Ont.; G. Wilkinson, Cheltenham, R.R. 2, Ont. Winning team coached by J. E. Whitelock, Agricultural Representative, Brampton, Ontario.

INTER-COUNTY LIVE STOCK JUDGING COMPETITION HELD AT GUELPH WINTER FAIR, NOVEMBER 10th, 1924

SUMMARY

County Standing	Horses	Beef Cattle	Dairy Cattle	Sheep	Swine	Total
1. Wellington	450	540	475	525	498	2,488
2. Peel	475	460	435	395	514	2,279
3. Wentworth	460	498	436	371	493	2,258
4. York	453	479	370	401	523	2,226
5. Perth	352	496	416	447	511	2,222
6. Bruce	456	517	445	386	396	2,200
7. Halton	417	510	436	386	431	2,180
8. Durham	478	366	425	422	484	2,175
9. Brant	281	500	429	407	476	2,093
10. Waterloo	355	459	384	456	421	2,075
11. Elgin	427	392	351	394	449	2,013
12. Simcoe South	316	487	381	413	408	2,005
13. Oxford	310	458	361	488	362	1,979
14. Victoria	419	391	437	340	387	1,974
15. Middlesex	363	449	362	330	452	1,956
16. Muskoka and Parry Sound	320	400	409	363	458	1,950
17. Simcoe North	275	477	376	364	414	1,906
18. Welland	343	339	439	430	344	1,895
19. Lambton	356	448	350	339	387	1,880
20. Grey	315	512	333	356	363	1,879
21. Dufferin	330	318	342	411	426	1,827
22. Ontario	319	431	366	363	339	1,818
23. Haldimand	391	376	398	345	279	1,789
24. Norfolk	391	330	354	339	355	1,769
25. Lincoln	290	310	357	405	381	1,743
26. Huron	281	406	384	370	286	1,727

The Hon. Manning W. Doherty Trophy—won by Wellington County.

Members of the winning team—Earl H. Moore, Orton, R.R. 1; Wilfred Gerrie, Belwood, Ontario; Gordon Swanston, Rockwood, R.R. 3.

Winning team coached by R. H. Clemens, Agricultural Representative, Arthur, Ontario.

LIVE STOCK JUDGING COMPETITION, OTTAWA WINTER FAIR, DECEMBER 3rd and 4th, 1924

INDIVIDUAL SUMMARY

County	Contestant	Horses	Beef	Dairy	Sheep	Swine	Total	Standing
Carleton	Harold Gibson, Kinburn	166	154	160	167	166	813	1st
	Lowry Stevenson, Kinburn	162	137	151	177	170	797	2nd
	Palmer Wilson, Pakenham	140	163	178	175	82	738	
Dundas	Ray McCaslin, Iroquois	131	143	104	77	156	611	
	Roy Tousaw, Iroquois	141	123	91	105	86	546	
	Geo. Rennick, Iroquois	119	111	106	122	79	537	
Frontenac	Harvey MacDonald, Sunbury	157	148	154	143	149	751	10th
	Leslie Moreland, Sunbury	135	144	183	150	93	705	
	Clifford Barr, Inverary	149	153	161	123	135	721	
Glengarry	Douglas MacMillan, Alexandria R.R. 2	153	134	163	104	155	709	
	Alex. McDonald, Alexandria, R.R. 2	152	125	114	102	156	649	
	Christopher McRae, Alexandria, R.R. 2	131	147	139	163	109	689	
Grenville	Wilfrid Merriefield, Burritts Rapids	154	139	163	113	146	715	
	Raymond Whitley, Spencerville	169	141	126	124	137	697	
	Paul Curry, Prescott	145	132	152	100	136	665	

LIVE STOCK JUDGING COMPETITION, OTTAWA WINTER FAIR, DECEMBER 3rd and 4th, 1924—*Continued*

INDIVIDUAL SUMMARY

County	Contestant	Horses	Beef	Dairy	Sheep	Swine	Total	Standing
Hastings	Ray Williams, Stirling, R.R.	119	141	145	106	130	641	
	Clayton Wright, West Huntingdon	144	161	148	159	151	763	8th*
	Edmund Dracup, Stirling	145	151	164	139	150	749	
Lanark	Robert Toshack, Almonte, R.R. 1	133	125	177	185	173	793	3rd
	Alex Snedden, Almonte, R.R. 1	142	142	149	164	180	777	5th
	Geo. Thompson, Almonte, R.R. 4	158	164	154	153	144	773	6th
Leeds	Clarence Taylor, Elgin	133	133	132	177	123	698	
	Arthur Horton, Lansdowne	170	138	170	149	136	763	8th
	Gordon Smith, Lansdowne	144	176	177	155	115	767	7th
Lennox and Addington	C. Denyes, Odessa, R.R. 1	160	144	149	140	155	748	
	W. Wilson, Napanee, R.R. 7	121	121	134	132	111	619	
	H. C. Empey, Napanee, R.R. 4	139	148	174	175	147	783	4th
Peterboro	Frank Greystock	177	140	127	147	111	702	
	Peter Mather, Keene, R.R. 2	141	147	136	157	138	719	
	Harvey Webber, Peterboro, R.R. 3	132	143	158	84	149	666	

*Tie.

COUNTY SUMMARY

County	Horses	Beef	Dairy	Sheep	Swine	Total	Standing
Carleton	468	454	489	519	418	2,348	1st
Lanark	433	431	480	502	497	2,343	2nd
Leeds	447	447	479	481	374	2,228	3rd
Frontenac	441	445	498	416	377	2,177	4th
Hastings	408	453	457	404	431	2,153	5th
Lennox and Addington	420	413	457	447	413	2,150	6th
Peterboro	450	430	421	388	398	2,087	7th
Grenville	468	412	441	337	419	2,077	8th
Glengarry	436	406	416	369	420	2,047	9th
Dundas	391	377	301	304	321	1,694	10th

The Peter White Tophy—won by Carleton County.
The winning team coached by C. M. Meek, agricultural representative, Carp, Ontario.

CHAMPIONSHIP JUDGING COMPETITION

Since 1917 the stock judging teams winning at Guelph and Ottawa respectively competed for the handsome silver trophy donated by the Union Stock Yards Company and Ontario Packers and symbolical of the Provincial Championship of the year. The teams from Carleton and Wellington Counties met in Toronto and district on March 3rd and 4th, 1925, and judged for the 1924 premier position as follows:—

CLASSES OF STOCK JUDGED

DAIRY CATTLE:	Jerseys	R. J. Fleming, Donlands.
	Holsteins	Don Alda Farms, Todmorden.
BEEF CATTLE:	Shorthorn Heifers	Don Alda Farms, Todmorden.
	Finished Steers	Union Stock Yards, Toronto.
SHEEP:	Leicester Ewe Lambs	Don Alda Farms, Todmorden.
	Market Lambs	Union Stock Yards, Toronto.
SWINE:	Yorkshire Brood Sows	Don Alda Farms, Todmorden.
	Bacon Hogs	Union Stock Yards, Toronto.
HORSES:	Clydesdale Draft Horses	Dominion Transport Co., Toronto.
	Percheron Draft Horses	Wm. Neilson Co., Toronto.

The Carleton County team won by fifteen points as shown in the summary:—

County	Contestant	Horses	Beef Cattle	Dairy Cattle	Sheep	Swine	Total
Carleton....	Harold Gibson, Kinburn.....	157	124	85	177	173	716
	Lowry Stevenson, Kinburn.....	73	131	120	175	132	631
	Palmer Wilson, Pakenham.....	178	162	134	180	176	830
	Coach, C. M. Meek, Agricultural Representative, Carp.						2,177
Wellington..	Earl H. Moore, Orton, R.R. 1.....	121	182	146	152	188	789
	Wilfred Gerrie, Belwood.....	88	170	125	154	149	686
	Gordon Swanston, Rockwood, R.R. 3.....	132	156	102	168	129	687
	Coach, R. H. Clemens, Agricultural Representative, Arthur.						2,162
Carleton team leads in horses, sheep and swine. Wellington team leads in beef and dairy cattle.							
Carleton.....		408	417	339	532	481	2,177
Wellington.....		341	508	373	474	466	2,162
							15

In addition to contributing the trophy, the donors paid all expenses of the competing team members and entertained them at a banquet when the trophy was presented.

INDIVIDUAL JUDGING COMPETITIONS AT EXHIBITIONS

Name and Date	Classes	No. of Prizes	Range of Prizes	Total Offered	Total Contestants
Canadian National Exhibition, September 3 and 4.	Heavy Horses.....	16	$20—$5 00	$200 00	44
	Beef Cattle.....	16	20— 5 00	200 00	65
	Dairy Cattle.....	16	20— 5 00	200 00	65
	Sheep.....	16	20— 5 00	200 00	35
	Swine.....	16	20— 5 00	200 00	49
	Poultry.....	16	15— 50	120 50	15
	Fruit and Vegetables....	16	15— 50	120 50	26
	Grains and Roots.....	16	15— 50	120 50	45
Central Canada.....	Heavy Horses.....	9	15— 7 00	99 00	10
Exhibition, September 9...	Beef Cattle.....	9	15— 7 00	99 00	20
	Dairy Cattle.....	9	15— 7 00	99 00	32
	Swine.....	9	15— 7 00	99 00	24
	Sheep.....	9	15— 7 00	99 00	15
Western Fair, London, September 10.....	Heavy Horses.....	6	11— 3 00	40 00	22
	Beef Cattle.....	6	11— 3 00	40 00	42
	Dairy Cattle.....	6	11— 3 00	40 00	33
	Sheep.....	6	11— 3 00	40 00	18
	Swine.....	6	11— 3 00	40 00	21
Peninsular Winter Fair, Chatham, January 22, 23	Heavy Horses.....	7	8— 1 00	29 00	21
	Beef Cattle.....	7	8— 1 00	29 00	18
	Swine.....	7	8— 1 00	29 00	17
	Sheep.....	7	8— 1 00	29 00	15
	Corn and Seeds.....	7	8— 1 00	29 00	13
	Identification and Judging Corn.....	6	5— 1 00	13 00	8

The liberal treatment tendered competitors by exhibition managements in addition to the prize money was appreciated. The Canadian National Exhibition, in addition to sending passes, entertained all competitors at dinner and provided a block of grand-stand seats for the evening performance.

JUNIOR WOMEN'S INSTITUTES

The Junior Women's Institute movement is following closely the success of the young farmers' organization. Originating similarly, following short courses, these clubs support and participate in the young people's community betterment activity. It has been found that by co-operating in projects and combining in healthy social life that much enthusiasm has resulted, stability been assured, and accomplishment realized.

The agricultural representatives have co-operated with the Women's Institutes Branch in organizing various activities similar to those carried on in Peel County, a few examples of which are given under Home Demonstration Work at the end of this report.

INTER-TOWNSHIP HOUSEHOLD SCIENCE JUDGING COMPETITION, CANADIAN NATIONAL EXHIBITION

The first Household Science Judging Competition of a Provincial scope for girls was conducted at the Canadian National Exhibition on September 3rd and 4th, 1924. The Canadian National Exhibition Board offered $1,500 in prizes for individual winners in different classes in addition to a handsome challenge trophy for the high township team of three girls.

The agricultural representatives co-operated with the Women's Institutes Branch in organizing and training fifty-eight township teams. The instruction reached many other girls who had hoped to be chosen or who were preparing for a position on later teams in addition to a goodly number, including older women, who attended demonstrations for personal benefit. The winning team from Dunwich Township, Elgin County, was composed as follows:—

Alice Galbraith, R.R. 3 Iona Station
Grace Farr, R.R. 3 Dutton
Amy McCallum, R.R. 2 Dutton

All competitors received the same liberal treatment accorded the Junior Farmer judges.

PROFIT COMPETITIONS

The objects in continuing the Profit Competitions were to encourage a number of young men under thirty years of age in the counties participating to keep careful records and analyze the costs of production, also to encourage the comparison of profits which might fairly be expected from different kinds of crops and live stock under varying conditions of costs and markets and different methods of care and management and in addition to send a party of boys from different counties to the Guelph and Kemptville Agricultural Institutions to benefit by practical short courses. The first prize offered in every case by the Department of Agriculture included railway fare, board and lodging for two weeks at the college or school. A total of fifty-three winners have been

awarded these short course prizes and local funds have rewarded those winning lower positions in some counties. Junior Farmers' Profit Competitions were conducted during 1924 as follows:—

	No. of Competitions	No. of Contestants
Acre Profit Competitions with Oats	12	43
" " " " Potatoes	5	27
" " " " Seed Corn	2	8
" " " " Silage	4	18
" " " " Turnips	2	6
" " " " Barley	1	6
" " " " Beans	1	4
Dairy Profit Competitions	1	1
Baby Beef Competitions	10	36
Feeding Hogs Competitions	12	45
Poultry Profit	3	10
Total	53	204

ACRE PROFIT COMPETITIONS

Prizes in these contests were awarded to those showing the highest net profit in each county after deducting all major production costs. In order to have a uniform basis of computation the Department decided upon values to be used as given:—

1. *Man and Horse Labour*
   Man labour to be reckoned at 25 cents per hour.
   Horse labour to be reckoned at 15 cents per hour.

2. *Fertilizer*
   Barnyard manure applied to this crop at $1.00 per ton or two-horse-load.
   Barnyard manure applied to previous crop at 50 cents per ton or two-horse-load.
   Commercial fertilizer applied to this crop at two-thirds of cost price.
   Add commercial fertilizer applied to previous crop at one-third of this year's cost price.

3. *Rent of Land*
   To be computed on the basis of eight per cent. of the selling value of the land, this to be figured by the Representative and the Junior Farmers' Improvement Association.

	Value Seed Used in Planting	Value Product Harvested
Turnips	$0 90 per lb.	$0 11 per bushel
Mangels	45 " "	14 " "
Potatoes	1 00 " "	50 " " (late)
Spring Wheat	1 50 " "	1 35 " "
Oats	85 " "	50 " "
Barley	1 25 " "	80 " "
Field Beans	2 50 " "	2 50 " "
Corn for Seed	1 75 " "	1 25 " "
Corn for Silage	1 50 " "	5 00 per ton

County and Winner	Yield in bushels per acre	Value	Cost of Production	Profit
Oats—				
BRUCE:				
Bert Mason, Ripley, R.R. No. 1	89.6	$44 83	$23 58	$21 25
FRONTENAC:				
Jas. R. Henderson, Portsmouth	46.1	23 58	19 90	3 68
GLENGARRY:				
Roy Calder, Lancaster	36	18 00	17 30	70
HALDIMAND:				
LeRoy Pond, Jarvis R.R. No. 3	74	37 00	17 71	19 29
KENT:				
Carl Jenner, Merlin	73.3	36 65	19 77	16 88

County and Winner	Yield in bushels per acre	Value	Cost of Production	Profit
Oats—Continued				
LAMBTON:				
John Robert Osborne, Wyoming	73.3	$36 67	$25 09	$11 58
LEEDS:				
Alex Steacy, Lansdowne	30	15 00	23 35	*Loss* 8 35
LINCOLN:				*Profit*
Glenn N. Packham, Caistor Centre	90	45 00	23 35	21 65
MIDDLESEX:				
Gordon A. McIntyre, Belmont R.R. No. 3	65	32 50	17 15	15 35
ONTARIO:				
Burnett Jamieson, Balsam	50.7	25 38	21 24	4 14
PRESCOTT AND RUSSELL:				
Eugene Dupont, Curran	50	25 00	18 22	6 78
NORTH SIMCOE:				
Eugene Smith, Utopia	76	38 00	18 34	19 66
Potatoes—				
RAINY RIVER:				
Frank R. Leveridge, Devlin	345	172 50	54 40	118 10
Alex. Pope, LaValle	355	177 50	77 65	99 85
SUDBURY:				
Ferdinand Simard, Chelmsford	320	160 00	84 44	75 56
TEMISKAMING:				
Mahlon F. Beach, New Liskeard, R.R. No. 1	455	227 50	55 16	172 34
THUNDER BAY:				
Justin Keatley, Dorion	475	237 50	55 11	182 39
Barley—				
HALDIMAND:				
Harold Porter, Jarvis R.R. No. 1	46.5	37 20	14 40	22 80
Beans—				
KENT:				
Earl Stinson, Blenheim	30	75 00	24 19	50 81
Turnips—				
BRUCE:				
George A. Goodfellow, Teeswater	1300	143 00	62 50	80 50
DURHAM:				
Willie Hamilton, Nestleton R.R. No. 2	1120	123 20	42 40	80 80
Seed Corn—				
ESSEX:				
Howard Davison, Essex R.R. No. 3	80	100 00	34 53	65 47
KENT:				
C. Wray, Passmore, Morpeth, R.R. No. 1	120	150 00	40 45	109 55
Corn for Silage—				
DURHAM:	Tons			
Orville Osborne, Bowmanville	33	165 00	38 41	126 59
MANITOULIN:				
Ernest Moody, Big Lake	24.2	121 00	39 20	81 80
Gordon Howard Willett, Gore Bay	22.99	114 95	36 96	77 99
MIDDLESEX:				
Leo Anson Baker, Lambeth, R.R. No. 1	2	110 00	24 47	85 53

It is worthy of note that the grain crops showed to distinct disadvantage when compared with the others in spite of the larger labour costs of the latter. This is evidence which should induce many farmers to grow a larger percentage of these other useful crops, particularly those who are neglecting ensilage and roots as cheap sources of excellent feed.

The average cost of producing spring grain on the farms of forty-three competitors was $19.21 per acre, with the majority approximating this, while the total range was from $14.40 an acre to $26.18. The crop values of oats varied from $15 to $45, according to the yield. The importance of a heavy yield even at reasonable additional cost for cultivation and fertilizer is obvious.

BABY BEEF

The competitors in this contest took advantage of the opportunities of exhibiting their animals in fall fair classes and at the large winter shows, the latter having special classes open to these boys only and offering an excellent market. At the Royal and Guelph thirty-two calves were entered by these young men. The value set for the finished animals was 9½ cents a pound, but the boys who exhibited received several cents more on the average, which means that the actual profit was considerably higher than shown in the table. The basis of award was 75 points for quality and finish, and 25 points for highest net profit. These values were placed on feed:—

Ground Oats	$39 00	per ton		Low-grade Flour	$47 00	per ton	
Barley	41 00	"	"	Tankage	59 00	"	"
Ground Peas	62 00	"	"	Hay	13 00	"	"
Ground Rye	43 00	"	"	Alfalfa	14 00	"	"
Ground Wheat	45 00	"	"	Straw	6 00	"	"
Ground Corn	47 00	"	"	Silage	5 00	"	"
Corn on Cob	75	"	bush.	Turnips	4 25	"	"
Bran	33 00	"	ton	Mangels	5 50	"	"
Shorts or Middlings	36 00	"	"	New Milk	30 00	"	"
Oil Cake	57 00	"	"	Skim Milk	4 25	"	"
Cotton Seed Meal	67 00	"	"	Buttermilk	4 00	"	"
Gluten Feed	46 00	"	"	Whey	2 00	"	"
				Green Feed	2 50	"	"

BABY BEEF COMPETITION, 1924

County and Winner	Breed	Date of Birth	Weight of Steer	Value	Cost of feed consumed and initial cost of animal	Net Profit	Score
BRANT:							
McKenzie Hall, Ayr, R.R. 3	Shorthorn Purebred	Oct. 30, 1923	925	$87 87	$85 02	$2 85	94.5
BRUCE:							
Norman Schmidt, Mildmay, R.R. 1	Shorthorn	Sept. 28, 1923	940	89 30	45 31	43 99	95.9
Wesley N. Howe, North Bruce	Hereford Grade	Dec. 17, 1923	892	84 74	76 84	7 90	87
HURON:							
Gordon Lyons, Lucknow	Hereford Grade	Nov. 22, 1923	1080	102 60	92 81	9 79	85.75
LAMBTON:							
John H. Hodgins, Wyoming, R.R. 2	Shorthorn	Dec. 9, 1923	750	71 25	54 92	16 33	82
MIDDLESEX:							
D. J. McTaggart, Appin, R.R. 4	Shorthorn	Nov. 1923	970	92 15	62 82	29 33	90
Clifford Jones, Southwold, R.R. 2	Aberdeen Angus	Jan. 10, 1924	875	83 13	61 56	21 57	87
PEEL:							
J. E. Laughlin, Alton, R.R. 1	Shorthorn Grade	Sept. 10, 1923	1000	95 00	60 00	35 00	84
Alex. Thompson, Bolton, R.R. 2	Shorthorn Reg.	Jan. 1, 1924	800	76 00	64 30	11 70	81.06
WELLINGTON:							
Wesley Dunbar, Ariss, R.R. 1	Hereford	Feb. 27, 1924	630	59 85	40 90	18 95	87

County and Winner	Length of feeding period	Average weight of hogs alive when marketed	Average gain in weight from six weeks of age	Value per hog of gain in weight	Average cost of feed per hog	Average net profit per hog	Average net profit per cwt. gain
BRUCE: Alex. C. McGillivray, Paisley, R.R. 4	July 30-Nov. 25 118 days	210	186	$17 57	$9 59	$7 98	$4 29
BRUCE: Walter J. Thompson, Teeswater....	April 11-Sept. 5 147 days	205	170	16 07	8 75	7 32	4 30
ESSEX: George Eede, Essex, R.R. 1.....	May 6-Sept. 27 144 days	230	209	19 50	9 70	9 80	4 69
FRONTENAC: Wilbert Gates, Kingston, R.R. 1...	June 8-Nov. 25 170 days	212	186	18 90	12 14	6 76	3 63
HALDIMAND: Wilmer Schumacher, Fisherville, R.R. 1.....	May 8-Oct. 20 164 days	206.25	178.75	16 89	9 17	7 72	4 32
KENORA: Wesley Brignall, Oxdrift.....	May 27-Nov. 1 158 days	177	161	15 21	6 22	8 99	5 50
LAMBTON: John P. MacDougall, Wyoming....	June 3-Oct. 24 143 days	206	183	17 29	11 10	6 19	3 38
LEEDS: Arthur Horton, Lansdowne, R.R. 3.	April 1-Aug. 16 137 days	197.5	171	16 16	5 04	11 12	6 50
LINCOLN: Russel Blain, St. Ann's, R.R. 1.....	May 13-Oct. 12 152 days	201.66	181.66	18 89	6 77	12 12	6 67

MIDDLESEX:							
Maurice Shackleton, Mossley, R.R. 1	May 1-Oct. 9 161 days	195	170	16 06	8 83	7 23	4 25
ONTARIO:							
Almer Wallace, Seagrave, R.R. 1...	April 12-Aug. 8 118 days	186.66	160.66	16 71	8 15	8 56	5 32
SUDBURY:							
Jos. H. Gattie, Walford.....	June 24-Nov. 12 141 days	187.5	161	15 21	8 56	6 65	4 13

Market hogs in this competition were valued at $9.50 a cwt. at shipping point. The grain values used were the same as for baby beef, and hog pasture was charged at $1.00 for the feeding period.

PIG MARKETING DAY, OCTOBER 31, 1924

County	Name of Club	No. of members	Breed of pigs	No. pigs shipped to market	Grading		Prize	Price	Purchaser	Judging score	Team rank
					Selects	Thick smooth					
Bruce.....	Bruce.....	25	Yorkshire	64	26	38	3	$11 70	Swift	429	5th
Halton.....	Nassagaweya.....	15	"	66	24	42	4	11 35	Wm. Davies	374	6th
"	Milton.....	10	.....	68	22	46	6	11 05	Can. Pac. Co.	482	3rd
Hastings.....	Hastings.....	20	"	60	20	40	9	10 55	Gunns	301	8th
Huron.....	Colborne.....	25	"	60	26	34	7	10 95	Can. Pac. Co.	330	7th
"	Howick.....	13	.....	.....	.....	.....	.....	.....	.....	.....	.....
Middlesex.....	Lobo Township.....	18	"	60	30	30	5	11 30	Harris A.	.....	.....
North Simcoe.....	Elmvale.....	24	"	60	34	26	1	11 95	Harris A.	514	2nd
South Simcoe.....	West Gwillimbury.....	18	"	60	41	19	2	11 85	Can. Pac. Co.	447	4th
Wentworth.....	Wentworth.....	17	"	61	24	37	8	10 75	Harris A.	533	1st
Carleton.....	North Gower.....	15	"	.....	.....	.....	.....	.....	.....	.....	.....
Frontenac.....	Kingston.....	11	"	.....	.....	.....	.....	.....	.....	.....	.....
Grey.....	Grey.....	28	"	.....	.....	.....	.....	.....	.....	.....	.....
Haldimand.....	Jarvis.....	6	"	.....	.....	.....	.....	.....	.....	.....	.....
Peterboro.....	Peterboro.....	16	"	.....	.....	.....	.....	.....	.....	.....	.....

PIG MARKETING CLUBS

(Federal Policy)

Boys' pig clubs were organized with the assistance of the Federal Sheep and Swine Division officers in fifteen communities with a total of 248 members feeding 1,148 hogs. This is an average per club of fifteen boys who entered approximately five pigs each. The members were visited and advised from time to time and all were encouraged to exhibit pairs of pigs at school, Agricultural Society or special pig club fairs. The Dominion Live Stock Branch paid a third of all prizes offered in special classes at local fairs and offered the following for car lots and pig judging on marketing day, October 31st, when car lots were shipped to Toronto.

Prizes car lots entries of sixty hogs each shipped to market:—

1	2	3	4	5	6	7	8	9	10
$100	$90	$80	$75	$70	$65	$60	$55	$50	$50

Prizes for judging competition for pig club teams of three members:—

1	2	3	4	5	6	7	8	9	10
$25	$24	$23	$22	$21	$20	$19	$18	$17	$16

In addition to educational advantages the contributors to these uniform car lots received financial reward which was encouraging. A quotation from a letter by the representative of North Simcoe concerning the first prize car lot will illustrate this:—

"You will probably be interested to know that the marketing of the hogs of the Boys' Pig Club brought the members the sum of $429.30 in excess of what they would have received had the hogs been marketed in the usual way. This amount is made up as follows: difference in the sale price of hogs, figuring on the average market price of $10 per hundredweight, as compared with the sale price of our club lot, which sold for $11.95, prize money on the car lot, the judging team, and on the pairs of hogs, and also the saving in commission as the U.F.O. handled our load free of charge."

Difference in sale price	$266 80
Total prize money	152 50
Commission	10 00
Total	$429 30

BOYS' AND GIRLS' CLUBS

While the representatives have not specialized in the organization of live stock clubs for boys and girls, a sufficient number have been formed in the last few years to illustrate the possibilities of this type of project. In several counties where pure bred stock was distributed to club members a few years ago there are now numerous instances of pure-bred flocks and herds having replaced the common stock formerly kept and of young people with the right idea. The weakness in this work has been that it has seemed impossible to devote sufficient time and thought to follow-up work, which is essential with "teen" age members to achieve maximum results. Our officers have felt that in the main, greater results could be obtained from school fair and junior farmer projects with existing organization and staff.

In 1921, the Elgin Representative and a committee of farmers co-operated with a local bank manager in organizing a pure-bred live stock club for boys and girls. The bank gave credit at 6 per cent. per annum. Since that time the club has progressed and the totals distributed since organization are as follows:—

Cattle	*Swine*	*Sheep*
13 Holstein	96 Yorkshire and Tamworth	24 Oxford Down
8 Shorthorn		
2 Jersey		
1 Angus		
24	96	24

In Norfolk County thirteen pure-bred Holstein heifers were placed with boy members. In 1923, of this the Representative says:—

"The boys who entered this club have made satisfactory progress with their heifers. Eight of them were exhibited in a special class at the Waterford Fair, and were a splendid addition to the live stock showing at that fair. These heifers are likely to prove the foundation of some fine herds in the county.

A Jersey calf club was organized two years ago. Two of the boys who took heifers in this club now have splendid pure-bred Jerseys herds on their farms where no Jerseys were present before."

FARM LABOUR

The County Agricultural offices served as employment agencies to a much greater extent in 1924 than formerly. The local officers, knowing the farmers and their conditions, were qualified to render valuable assistance, particularly in placing immigrants. In the cities or towns having permanent employment agencies, such as London, Kingston, St. Catharines and Hamilton, the representatives co-operated in placing farm help. In most of the other districts, they acted as local officers of the Immigration Branch in addition to locating worthy local applicants for employment.

All representatives interested have reported much more satisfactory immigrant help and a more healthy labour situation because of this, combined with greater numbers at somewhat lower wages. In addition to those from the British Isles, quite a number from Northern Continental Europe were placed. With the exception of some who obviously sought knowledge of the language and customs and an opportunity to cross the border, these proved successful. Some of the Danes, though excellent men, expected higher wages than farmers wished to pay. About fifty, including thirty Danes, fifteen Finlanders, three Hollanders and two Swiss, were placed in Wellington. Several Danes and Swiss were located in Peel, where some farmers had previously learned to appreciate men from these countries. About twenty-five Germans were placed in one district of Bruce at from $12 to $15 a month to start. Though not knowing our language, some of them were experienced in Old Country methods and gave satisfaction.

The Wellington representative by a survey found that over 300 farmers in that county regularly employ one or more men by the year. The Peel office has been active in this work and the report from it is given:—

(a)

No. Applications Received	Married Men	Single Men	Boys	Women
402	15	369	15	3
No. Placed				
264	8	242	13	1

Wages:

Single Men	6 to 8 months	Year
Experienced	$35–40	$350–380
Partly experienced	25–30	250–300
Inexperienced	15–25	150–250
Married men (free cottage, garden, etc.)		500–600

(*b*)

"A few of our farmers paid as high as $420 and up for single men during the past year but in all cases to men whom they knew. The demand for farm labour was fairly heavy throughout the year and only began to fall off in October. We were fortunate, however, in securing a larger number than usual and therefore were able to fill most of the applications fairly promptly. Many applications were not filled from the office owing to the fact that they were forwarded direct from Toronto or else secured help locally before we could assist them. The general quality of the men was fairly satisfactory and was, we believe, an improvement over the previous year.

"The largest percentage of our help was secured from the Department of Colonization with a few from the Swiss Consulate and a few boys from the Salvation Army.

"We might add that four boys who came from real good homes in the Old Country were placed in this county by the Department of Colonization through this office, and, although inexperienced, have proven excellent help and towards the end of the summer were able to take an experienced man's place at practically all work."

FARM DRAINAGE

It is expected that underdrainage will show material increase next year as the cost of this improvement and farm product values have commenced to compare more favourably. In 1924 an increased demand for survey and advice has been reported, particularly from the counties of Essex, Elgin, Kent, Lambton, Perth and Wellington. Practically all offices are equipped with a dumpy level, as there are always some requests for assistance.

EXPERIMENTAL AND DEMONSTRATION WORK—BLEZARD VALLEY DEMONSTRATION FARM

An extract from the report of the Sudbury Representative covers the preparation and first year's crop work on this project:—

In the fall of 1923 I received instructions from the Minister to proceed with the plans for a model or demonstration farm for this district.

For this purpose an eighty-acre farm situated at Blezard was selected. This is an average size farm and in soil, fertility and previous methods of cultivation was fairly representative of the type of farms, their condition and culture, for that locality.

The farm was leased too late in the fall to make much headway before winter, but still it gave us time to make preparations to get away to a good start in the spring.

Due to the fact that the general practice of selling hay and grain had been quite closely adhered to on this farm, as well as on the majority of others, it was quite evident that the soil was deficient in humus. A physical examination of a sample of the soil forwarded to O.A.C., Guelph, quite conclusively proved this. With this in mind, and the fact that not enough attention was being given to the production of potatoes, as a cash crop, the roots and silage crops as winter feed for stock, I decided that a short rotation would, while assisting in replenishing the humus content of the soil, at the same time bring into prominence the benefits to be derived by growing potatoes for the cash crop, instead of hay and grain, and roots and silage to supplement the straw ration which is customarily fed to stock during the winter months. The rotation decided upon was a four-year one, as follows: Potatoes, roots and silage crops, followed by oats seeded down principally to clover, clover hay and pasture. In order to put this rotation into effect, the existing fences were torn down last fall and the farm divided into four twenty-acre fields.

As this farm is flat and level, with the water table somewhat near the surface, the question of drainage presented itself. To aid in this year's operations as much as possible, I made a drainage survey last fall and persuaded the owner of the farm to dig a series of open ditches. The lay of the land is such that it was possible to make a ditch down each side of the farm and three cross-ditches practically between each twenty-acre field. These ditches carried off all surface water and greatly assisted cultural operations this spring.

Two of the twenty-acre fields were fall-ploughed. Number one, the front field, being in the following crops in 1923: pasture, potatoes, and wheat. This field was planted to potatoes, roots and silage crops in 1924. Number four, the rear field, and the other field fall-ploughed was in oats in 1923. This field was sown to oats again in 1924 but seeded down.

During the winter all seed and fertilizer required were ordered and delivered to the farm so that we were "all set" to go ahead as soon as soil and weather conditions permitted in the spring.

Field No. 1 was fit to work first, and disking was commenced on that field on May 15th. I was anxious to impress upon Mr. Moncion, the owner of the farm, the importance of thorough and proper tillage, and although he followed instructions and got the land in good tilth, it was not until fall, when he saw the crops, that he was convinced in his own mind of the necessity of this.

The following, in tabular form where possible, is the result of our first year's operations:

POTATOES

Variety	Planting Date	Digging Date	Bus. Seed per acre	Source of Seed	Treatment of Seed	Manure per acre	Fertilizer per acre	Diseases	Yield per acre, bus.
(*a*) Green Mts.	May 22-27	Oct. 13	21	Local Certified	Bichloride 2 oz. to 25 gals., 3 hrs.	5 tons	350 of	Mosaic 10%	287
(*b*) I. Cobblers	May 13	Oct. 20	22½	Acton Certified.	"	"	"	Practically free	254
(*c*) Dooleys	May 14	Oct. 20	22½	Acton Certified.	"	"	"	" "	252
(*d*) Mixed I. C. & Green Mts.	May 10-13	Aug. 18, 75 bus., balance in October.	15	Home Grown	None	"	"	Mozaic 15% Black Leg 20% Leaf Roll 5% Rhizoctonia 10%	166

SILAGE CROPS

Variety	Date Sown	Date Harvested	How Sown	Quantity Seed per acre	Tons Manure per acre	Pounds Fertilizer per acre	Yield per acre
Sunflower	June 5	Sept. 17	Drills 30 ins. apart	15 lbs. Mammoth Russian	5	350 4-8-4	15 tons
O.P.V.	June 7	Sept. 13	Disc Drill	4 bus. {2½ bus. O.A.C. No. 72 1¼ bus. Arthur Peas ¼ bus. Vetches	None	400 2-8-4	8 tons

ROOT CROPS

Variety	Date Sown	Date Harvested	No. Acres	Lbs. Fertilizer per acre	Yield
Rutabages	June 12	Nov. 10-15	1	500" 4-8-4	575 bus.
Turnips	June 12	Aug. 18 to Sept. 30	1	"	14 tons, with tops (fed from field).

SOILING CROPS

One acre was sown to rape and kale for soiling. These crops did well and supplied green feed to the stock during July and August.

GRAIN CROPS

Variety	Date Sown	Date Harvested	Treatment of Seed	Lbs. Fertilizer per acre	Yield per acre
New Industrial Oats.	June 2, 3, 4..	Sept. 25, 26....	Formalin 1-300 sprinkled	5 acres—200 lbs. acid Phos.. 400 lbs. Limestone..	Stand uneven—parts of field estimate 50 bus. per acre.
				5 acres—200 lbs. acid Phos.. 200 lbs. Limestone..	Average 35 bus.
				5 acres—200 lbs. acid Phos.. 2 acres—nil	Slightly lower results than where Acid Phos. and Lime used.
Bluebell Peas.....	May 30.....	Sept. 30.....	Inoculated.....	200 lbs. 4-8-4..... 400 lbs. Limestone..	20 bus.

The oat field was seeded down to following mixture per acre: timothy 12 lbs., red clover 5 lbs., alsike 3 lbs. The clover seed was inoculated before sowing and an excellent catch was obtained. Nodules were present on the clover roots in all parts of the field. According to the owner this is the first catch of clover on that farm in four years.

HAY

Twenty acres. Yield 10 tons. One-half ton per acre.

PASTURE

Twenty acres—Could not carry ten head stock throughout summer. During August, September and October rape, kale and turnips were practically only feed.

LIVE STOCK

There are at present on the farm the following: Five cows, four yearling heifers, three calves, one bull (pure-bred Holstein), one sow, six sheep and forty-five poultry.

All stock, with the exception of the bull and poultry, is nondescript scrub. It has been customary in the past for the owner of the farm to use scrub or grade sires but he has agreed to use none but pure-breds in future. In accordance with this policy the bull was purchased in May and, being well bred and of good type, should do much in the way of stock improvement.

PERMANENT IMPROVEMENT

During the summer a sixty-five ton wooden stave silo was erected. This silo was filled with O.P.V. and sunflower silage and this is supplying a large quantity of succulent feed per head of stock. The cows are still being milked, a precedent on this farm at this time of the year (December). The old practice was to winter all cattle on oat straw and water.

Another improvement begun this fall is a system of tile underdrainage. A survey and plans were made for a complete system of tile drains. As an experiment and demonstration twenty acres were tiled this fall and a main drain laid down from this field to the outlet, three-quarters of a mile distant. As the main passes down the side of the underdrained fields it will be a simple matter to lay more laterals in future should the experiment warrant it.

FIELD DAYS AND VISITORS

Two field days were held during the summer. On Thursday, August 28th, eight autos, with fifty of the business and professional men of Sudbury, motored to the farm. On the same day approximately two hundred farmers from the townships of Rayside, Blezard and Hanmer visited the farm. After a short address, both in English and French, in which I explained what we had already done and what we hoped to accomplish and the methods we were employing, the party passed the afternoon from 2.30 until 5 o'clock in a tour of inspection of the farm and crops.

Another similar day was spent with sixty farmers from the township of Balfour on Sunday, August 31st.

During the summer seventy-five individual people visited the farm, so that a total of three hundred and eighty-five visitors were received during the first year's operations. None but the most favourable criticism was received from any who visited the farm, and from the advertising which the place received at their hands I expect that the number of visitors will be greatly increased in future years.

FERTILIZER EXPERIMENTS

Co-operating with the Department of Chemistry, experiments with lime and chemical fertilizer on fall wheat were conducted in the Counties of Essex, Kent, Lambton, Middlesex, Peel and Wentworth. This work supplements that done in a similar manner in 1923, and the observations will be continued on the clover and grass crop seeded with the wheat. The results were interesting and profitable to the representatives concerned and the alert farmers of their districts.

Fertilizer work was carried on in a similar way in Rainy River on muskeg soils and in Kent with sugar beets. In Waterloo, acid phosphate was used on experimental plots of turnips. The summarized report on these experiments will be issued from the O.A.C.

ORCHARD DEMONSTRATIONS AND ASSISTANCE

In Durham County particularly, co-operating with the Provincial Entomologist and the Fruit Branch, a departure was made by organizing a spraying supervision service. Six representative orchards were selected, the owners of which agreed to carry out spraying operations on the detailed instructions of the Departmental officials. In addition, about fifty farmers who asked for assistance were given general advice and supervision. In spite of an unfavourable season which rendered early efficient spraying difficult and encouraged the growth of scab, excellent results were secured.

An extract from the Durham County report is introduced:—

"In spite of the very backward spring and the great difficulty experienced in getting the first spray on the trees, very gratifying results were obtained, for in all the orchards where Professor Caesar's directions were followed, good commercial control of both scabs and insects was obtained. Examination of the trees in the autumn showed about ninety-five per cent. of fruit that was absolutely clean. Actual grading of the apples when they were picked showed from 77.6 to 92 per cent. of number ones and twos and many of the apples which graded below number ones were graded down on account of colour. Unsprayed orchards showed practically 100 per cent. of scabby or wormy apples. Orchards which were sprayed too late or too early or not thoroughly, or otherwise improperly sprayed, showed only small percentages of clean apples."

Last winter proved disastrous to many young orchards because of girdling. Several representatives arranged for the co-operation of Vineland Station officers and other experts in conducting public demonstrations in bridge grafting. This work was appreciated and reports show that thousands of young trees have been saved thereby.

Spraying and pruning demonstrations and other orchard meetings were conducted in the counties of Middlesex, Dundas, Prince Edward, Northumberland, Norfolk, Lambton, Elgin, Leeds, Halton, Huron, North Simcoe and Peel. Apple box packing schools were held at several points.

FIELD CROP IMPROVEMENT

Alfalfa Campaign

The alfalfa acreage had been increasing but slowly previous to this season. Owing largely to the publicity given to the success in Peel County and the supply of hardy home grown seed available, there was a marked increase in seeding last spring. In several counties, organized effort was made for this purpose. In Grenville, a dairy county previously growing very little, the representative held a series of meetings at which the attendance ranged from sixty to 200. One hundred and nineteen farmers in different parts were persuaded to purchase reliable seed. In Leeds, three meetings were arranged at which the average attendance was seventy-five. At least forty bushels of hardy seed were bought by men in that county. The Hastings representative says that over 300 bushels of approved seed were imported into that municipality. In the Thunder Bay District near Port Arthur, twelve bushels were distributed in small lots. The farmers—some of whom were persuaded against their wills—were very pleased when their alfalfa held through the extreme drought which burned out all other freshly seeded clovers and grasses. It is expected that these plots will withstand the northern climate as a few fields have been producing for some years in this section and also in Kenora and Rainy River. A field in the latter district produced an ideal crop this year which was sown in 1914. When visited in August, this farmer was cutting a nice second crop after having stored a satisfactory yield from the first cutting. An adjoining field of red clover and timothy had not shown sufficient growth to cut at all and was being plowed. The operator has resolved to sow nothing but alfalfa for hay and pasture in future unless some unforeseen agents affect adversely this valuable crop. This evidence from the north should be convincing to illusioned farmers in more southerly districts.

Some sections will require time before the greatest success may be expected in alfalfa production but hardy seed, culture inoculated and properly cultivated, will establish it on most Ontario farms. Many of the agricultural representatives have advised doubting farmers to follow the lead of the Ottawa Experimental Farm and Ontario Agricultural College and other progressive institutions and

farmers in sowing about five pounds of hardy alfalfa in their regular mixtures. This will introduce it on many places which will continue to produce it.

It is felt that no work accomplished by the officers of this Branch will have more accumulated results in evidence a few years hence, than this promotion of the too little used but maximum producing pasture, hay and soil renovating crop.

Special Seed Grain Investigation

As a basis for seed grain improvement, the Oxford representative conducted a survey during spring seeding, 1924. One hundred samples of five pounds each were taken from the seed drills while sowing was in progress. Half of each sample was sent to the Toronto Dominion Laboratory for foreign seed analysis and germination test. The remaining portion was sent to the Ottawa Experimental Farm and sown in test plots. The Analyst's report is summarized:—

	Samples Showing Primary Noxious Weed Seeds	Secondary Noxious Weed Seeds	Other Weed Seeds	Weed Seeds, All Kinds
Per cent. of samples...	14%	48%	96%	97%

The number of weed seeds per pound in those samples containing them averaged:—

Primary noxious	3.6
Secondary noxious	5.0
All other weed seeds (highest)	3728

In calculating the average number of primary noxious weed seeds two samples averaging fifty-three each were omitted.

The germination average was very high, nearly all testing 98 per cent. or better, several showing 100 per cent. One sample tested 83 per cent. and one as low as 57 per cent. In addition to weed seeds of all kinds practically all samples contained seeds of various other cultivated plants. The weed content as indicated warrants action in this direction.

The test plots on the Experimental Farm, Ottawa, under the supervision of the Dominion Analyst showed interesting features as indicated by notes from his report.

"Most of the varieties, evidently, were intentionally mixed; that is, it would appear that many of your men are growing mixed oats and barley. You will note that many mixtures contain both two-rowed barley and six-rowed barley. These varieties did not mature very evenly, as one would expect, as two-rowed barley is usually considerably later than are the six-rowed sorts. With regard to variety names, no definite work was done on these, as it was not understood that you were so interested in this question just now. We note, however, that growers 44 and 71 had oats which they call Gunson 28. This variety must have been introduced illegally into Canada, as the said variety is nothing more or less than a selection out of Victory. In fact, it is simply Victory. The varieties called Liberty were all hulled varieties, whereas Liberty is a hulless sort. The large number growing varieties of unknown identity would seem to indicate that you still have a large percentage of farmers who are not taking the interest they should in this important variety question.

"The yields reported must not be too seriously taken, as, naturally, one cannot obtain any reliable information from one year's test. We hope that you may succeed in getting a seed-cleaning plant installed in your county, as the use of these plants is certainly vital to the success of any comprehensive seed-growing undertaking."

Co-operating with the Dominion Seed Branch and Ontario Agricultural College, educational work was carried on with the object of clover and alfalfa crop improvement. In Halton County, the farmers who responded to encouragement by roguing alsike fields were rewarded by buyers from outside points

competing for the clean seed. In Peel County the alfalfa growers were assisted by field inspection in their campaign for clean seed of hardy strains. Similar work was carried on to a lesser degree in other districts.

For a number of years the Prescott and Russell office has promoted the growing of clover seed. First it was necessary to encourage the purchase of hullers as none were operated. In 1924 nine of these machines threshed over 1,000 bushels of red clover and about 100 bushels of timothy. Producers, dealers and merchants have been urged to offer this seed in the locality and farmers have been advised to purchase this hardy sort in preference to any other. The chief object, that of encouraging the sowing of clover in a section using little, is being attained and promises much in the future.

Numerous experiments and demonstrations were conducted on smut control, potatoes, oats, insect prevention, rust control and other problems requiring attention in different counties.

LIVE STOCK IMPROVEMENT

Cattle

The publicity and general campaign work commenced in 1919 and continued since has borne fruit, as evidenced by the general improvement reported by most representatives. The progress in Oxford County may be judged by studying this table:—

MEN USING BULLS IN OXFORD COUNTY

	1921 Census		1923 Census		1924 Census	
	Using Pure-Breds	Using Grades	Using Pure-Breds	Using Grades	Using Pure-Breds	Using Grades
East Zorra	319	111	367	58	396	33
Blandford	147	64	157	34	168	28
Blenheim	318	49	212	56	179	45
East Oxford	235	44	222	26	186	18
North Oxford	57	21	55	5	86	16
North Norwich	239	98	219	36	283	19
South Norwich	132	30	143	28	134	55
East Nissouri	238	91	260	72	84	20
Total	1,685	508	1,635	315	1,516	234

Reduction in number of men using grades since 1921 in eight townships..... 274

The Peel report shows that at least thirty grades were replaced by pure breds in the year and that at the time the censure was taken in the spring of 1924 the grades had been reduced to about 23 per cent. In nine townships in Essex, 124 grade bulls were discarded in 1924 and eighty-three pure breds introduced.

Sheep

Sheep improvement has advanced encouragingly during the year and has been a major project in several counties in which representatives co-operated with the Federal and Provincial Live Stock Branches. The docking and castrat-

ing campaign has been greatly promoted by market distinction between trimmed and untreated lambs. Dipping practice is becoming more general and tanks have been installed according to the following table:—

County	Installed, 1924
Brant	2
Bruce	6
Dufferin	9
Grey	14
Halton	3
Huron	3
Lanark	18 (total to date)
Lennox and Addington	3
Lincoln	2
Manitoulin	13
Peel	4
Peterboro	5
South Simcoe	5
Victoria	5

Encouraged by Federal assistance, many pure-bred rams have replaced grades. In Dufferin County approved pure-bred rams were brought in and offered at public and private sales. Twenty-five of these were sold at an average price of $25. In Grey County 103 farmers who had not previously owned pure-bred rams applied for premiums, making a total of over 300 in three years having changed from scrub or grade to approved pure bred. Pure-bred ram clubs were organized at several points.

Special market lamb fairs were held at Middleville, Orangeville, Owen Sound and Norfolk. These were very successful in impressing producers of the importance of type and finish. The advantage of marketing uniform car lots was also demonstrated. On a car lot of graded lambs from Middleville, Lanark County, the contributors realized above local market quotations as follows: Choice, $1.38 a cwt.; good, 82 cents a cwt.; while the common practically equalled the average, being offered for all grades, at shipping point. A similar shipment from Orangeville brought about $1 a cwt. above market quotations, and a load from Renfrew County returned to the growers $1.50 a cwt. for choice and $1 a cwt. for No. 1 above local prices.

Swine

Largely because of the graded method of selling market hogs, improvement has been very noticeable and the assistance of agricultural representatives has been frequently solicited. In sections where bacon boar clubs had been organized bacon hog fairs were successfully conducted at Stayner, Milton and Flamboro Station. The Live Stock Branch officers were assisted in organizing many clubs in 1924. Grading demonstrations have been conducted at numerous shipping points and private lessons have been given in hundreds of hog pens and pastures. In a few counties, record of performance tests have been commenced on the boars being used. In Oxford the official market grading of hogs sold from 295 sires has been tabulated. Boars have been classified as follows:—

Group 1—The progeny	40	graded	between	75% and	100%
Group 2— " "	133	"	"	50% "	75%
Group 3— " "	70	"	"	25% "	50%
Group 4— " "	51	"	"	less than	25%

The Live Stock Improvement Committee has commenced a campaign to replace with approved sires all of those in the lowest class and then to assail

Group 3 and so on. An excerpt from a letter by the representative shows that worth while results are being realized already.

"An interesting feature of recent record reports is that during the last few weeks one boar has been disposed of from Group 1, three from Group 2, four from Group 3, and fourteen from Group 4."

Five shipping points in Waterloo illustrate the improvement evidenced in some districts since the adoption of the grading policy.

Percentage Selects:	Jan., 1923	Aug., 1923	Aug., 1924
Five shipping points, Waterloo county.....	5.4%	27%	44%

Poultry

Interest in poultry improvement has been manifested in practically every county. Personal advice has been sought and public meetings and demonstrations requested. There has been a marked demand for pure-bred males of good breeding and for eggs and baby chicks from proven flocks. Culling has demonstrated its value and consequently there has been an increasing demand for this service. In several counties schools for the training of cullers were held, and those receiving instruction served their neighbours usually at a small fee per bird handled. The co-operative shipment of the culls was successfully organized in several districts.

CULLING TABLE

County	No. Demonstrations	Total Attendance	No. Flocks Culled	Total Birds Handled
Algoma	11	176	..	1,060
Brant	..	..	121	7,226
Dundas	4	54	..	....
Durham	..	..	49	4,994
Essex	19	186	..	....
Frontenac	8	..	..	1,070
Alexandria	5	..	..	3,000
Grenville	14	165	..	1,234
Haldimand	5	185	85	8,445
Halton	20	..	..	2,744
Hastings	8	192	..	1,130
Huron	10	177	..	1,142
Kent	26	188	..	2,642
Lambton	91	..	..	7,156
Lennox and Addington	6	84	..	....
Lincoln	17	..	..	....
Middlesex	15	485	..	....
Muskoka and Parry Sound	3	..	..	....
Peel	..	..	78	4,900
Perth	11	349	..	....
Peterboro	..	..	32	3,102
Prescott and Russell	10	398	..	....
Prince Edward	20	134	..	1,846
Leeds	17	..	..	700
Manitoulin	11	..	..	655
Renfrew	15	..	..	900
Thunder Bay	9	..	..	....
Port Arthur Branch	6	132	..	805
Timiskaming	4	39	..	....
Victoria	8	159	3	....
Waterloo	..	..	60	4,000
Wellington	12	234	..	7,000
York	9	315	..	930

Breeders' Clubs

Pure bred live stock clubs continued to foster interest and progress in better stock. Meetings, demonstrations and sales have been held and trips conducted. These associations encourage cow testing, accreditation, better sires and other movements tending to improvement. The agricultural representatives have assisted with the organization of some new clubs and have advised and worked with the officers of those functioning.

Cow Testing

In addition to supplying information on babcock butter fat testing and daily recording of milk production, the representatives have actually tested many samples of milk and cream. In those offices situated in fluid milk producing areas, this work at times was sufficient to warrant the employment of a tester for this work, but no additions were made to the staffs.

Organized cow testing for community herd improvement was successfully carried on in a number of counties. The Peel County Milk and Cream Producers' Association has co-operated with the Dominion Live Stock Branch in herd testing for three consecutive years. Each annual summary has shown decided improvement and the 1924 record as issued by the Live Stock Branch, Ottawa, illustrates the high standard which some herds have attained.

SUMMARY OF HERDS TESTED AT BRAMPTON IN YEAR 1924

Herd No.	No. Cows	Average Production			High Production	
		Milk	Test	Fat	Milk	Fat
		lbs.	%	lbs.	lbs.	lbs.
1	32	5,823	5.16	300.4	8,806	471.4
2	18	11,904	3.19	379.3	16,163	550.9
3	20	11,621	3.54	416.9	15,448	558.5
4	21	8,732	3.32	289.9	11,525	391.2
5	4	10,888	3.09	336.5	12,968	424.5
6	13	7,435	3.98	296.0	9,258	371.1
7	3	6,793	3.41	231.0	9,512	321.8
8	..	....	....	....	....	....
9	2	6,771	3.29	222.6	8,650	240.8
10	1	4,988	4.3	216.0	....	....
11	17	8,002	3.38	271.1	11,043	374.5
12	15	7,931	3.33	262.5	9,857	342.0
13	9	6,139	4.65	285.5	8,077	371.8
14	11	9,318	3.50	324.5	13,222	426.2
Totals and Averages	166	8,482	3.69	313.1	11,210	403.7

"The herd average from milk and butterfat production are calculated from records of cows that were recorded for eight months or longer.

"The best individual production was 15,448 lbs. milk and 558.5 fat. The herd averages indicate that the cows of the Brampton Association are much higher producers than the average run of dairy cows.

"Three hundred and six cows were under test during the year; 144 continued for less than eight months. One hundred and sixty-six cows were under test for eight months or more; 17 cows produced more than 400 lbs. fat, 3 cows produced over 500 lbs. fat.

"It is rather interesting to compare these results with those of a year ago. At that time the average production of fat per cow was 288.7 lbs. in comparison with 313.1 this year, and the average amount of milk per cow was 7,516 lbs. in contrast to 8,482 lbs. These point out very strongly the importance of milk-testing and the benefits to be derived therefrom."

Prescott and Russell operated three testing centres with a total of 1,494 cows. In addition to the above and other counties, the Dominion Live Stock Branch co-operated in organizing and testing for the Wentworth Cow Testing Association, which plans to continue in a permanent and extensive way.

The basis is that each member pay 50 cents per cow per year. The Pure Milk Co., Hamilton, the Federal and Provincial Departments of Agriculture each contributed in getting the work established. Since June 807 cows have been under test.

CO-OPERATIVE ORGANIZATION

The agricultural representatives have given assistance in an advisory and organization way to many Farmers' Co-operative Associations which had been established and which were organized during the year. Successful egg circles originating this year were reported in numerous counties. The Oxford Farmers' Co-operative operates its own building and employs graders. During the season about 60,000 dozen eggs were handled. Recently an agreement has been reached with the local merchants whereby they have agreed not to purchase ungraded eggs from producers as this is believed to be in the best interests of all. This organization sponsored poultry culling and shipped out one full car and 7,000 pounds of hens thus eliminated. In addition crate fattening batteries have been installed and a total of twenty-eight tons of poultry has been shipped.

The representatives in the Counties of Oxford, Wellington, Waterloo, Halton and Brant assisted in the organization of the Ontario Turnip Growers' Co-operation, Ltd. The Peel County Alfalfa Seed Producers' Association in one year's operation has greatly stimulated the more general sowing of alfalfa in Ontario by the publicity given to the success of the crop on different types of soil in that district. Fields of members were again inspected in bloom in the summer of 1924 and a greater quantity of sealed seed is being distributed this season. The Peel representative comments as follows:—

"During last year's operation of the pool, approximately 5,800 bushels of seed were distributed to over 500 customers for $62,576.00. This resulted in a net return of between $9.50 and $12.00, according to grade, in the rough to the growers, which was entirely satisfactory to practically all of those who had pooled their seed. This price was a substantial amount above that received by those outside the pool in spite of the fact that the non-members made at least $3.00 per bushel more for their seed than they would have done without the service rendered by the Association, and we believe we are conservative when we state that the Association made over $60,000.00 for the farmers of Peel last year."

Wool marketing co-operatively has proved very beneficial to growers and our men have felt justified in promoting this method of disposing of the commodity which formerly found only a very unsatisfactory market. In 1924, 3,944 Ontario shippers consigned 652,070 pounds of wool to the Canadian Co-operative Wool Growers' pool.

MISCELLANEOUS

Advisory Agricultural Councils

The boards appointed by the councils in an increasing number of counties have operated to the great advantage of the service and those representatives so assisted. In Peel County this has been supplemented by township committees which usually confer previous to county meetings to discuss local problems and projects and forward recommendations to the senior body.

In some districts, boards of agriculture render similar assistance and in addition carry through programmes of meetings, demonstrations and other activities consistent with county requirements.

Agricultural Improvement Associations

All organizations for the improvement of agriculture and rural living can depend upon the advice and co-operation of the representatives. During the year considerable time and thought have been spent assisting fall fair boards, fruit, vegetable and seed grain associations, also horticultural societies, poultry, bee-keeping and plowmen's associations, farmers' clubs and similar other groups.

Other Activities

It would be futile to attempt to report on the numerous other services rendered by the county men, but a few may be mentioned. In some parts of Northern Ontario the representatives undertake veterinary assistance owing to there being no qualified practitioners. Our men assisted the Northern Development Branch in the distribution of seed grain, and the Agricultural Development Board in an advisory way. Northern representatives collected and prepared material for the Colonization Branch Exhibit at the Canadian National Exhibition and other fairs.

Reforestation is progressing favourably in several counties, particular activity being reported from the counties of Hastings, Halton, Welland, Northumberland and Simcoe. Farmers wishing to take advantage of the wind break and shade tree offer of the Forestry Branch were advised and assisted.

In Prescott and Russell several illustration farms selected by Federal authorities were supervised by the representatives. In several eastern counties assistance was given in the organization and judging of an orchard and garden competition. The Dundas officer assisted local farmers in locating and adapting themselves to a new market for sweet cream. In Prince Edward special pea blight investigation was conducted.

Annual Conference

Each year, usually in late June or early July, all agricultural representatives are called in to a conference to review the work of the preceding year and plan for the future. At the 1924 session held at the Ontario Agricultural College from June 16 to 19, there were a few excellent addresses by outside authorities on present day problems, but the committee work was the strong feature of the conference.

Groups of county men who had been successful or were particularly interested in a certain phase of agricultural improvement gathered around the table with members of the College staff and interested officers of other branches of the Department. The recommendations of these committees were discussed in open conference and adopted or amended as directed by the majority. Due to apparent necessity a standing committee on field crop and seed improvement has met several times since June and will report progress at the next conference. This getting together of those who should co-operate in projects prevents overlapping and engenders efficiency.

In Peel County the Home Demonstrator continues to work in co-operation with the Agricultural Representative and covers a wide range of activities, much appreciated in the community.

KEMPTVILLE AGRICULTURAL SCHOOL

An increasing interest is being evidenced in the Kemptville Agricultural School by the farmers of Eastern Ontario, while students are also being drawn from a widening area. Reduced profits from our farms have again resulted in an attendance much below the number we can accommodate, but the enrolment of new students has increased 60 per cent. over that of last year. Students are now in attendance from as far north as Copper Cliff and North Bay, while England, Denmark and South Africa are represented in our Junior year. Our Domestic Science classes are not as well attended as our course warrants, but short courses in this work continue to be popular.

The attendance in the different regular classes is as follows: Agriculture, thirty-five students; Domestic Science, fourteen students.

The short courses conducted by the school, during the past year, were attended as follows: General Agriculture, forty students; Domestic Science, fifty-two students.

Fifty public school teachers attended the summer course held annually in July and August.

The following staff was in charge during the year: Permanent—W. J. Bell, Principal; E. K. Hampson, Field Husbandry and Chemistry; A. J. Logsdail, Horticulture, Economics and Biology; P. M. Dewan, Poultry, Bees and Economics; C. A. Warren, Farm Engineering and Drainage; Dr. C. H. Holmes, Veterinary Science; Miss E. E. Weaver, Secretary; J. D. Eadie, Farm Foreman; P. McClelland, Herdsman. Temporary—A. G. Richmond, English and Mathematics; Miss Nellie Kidd, Domestic Science, Sewing, Household Practice and Laundry; Miss Frances Hilliard, Domestic Science, Cooking; Miss I. Syme, Home Nursing and Physiology; Miss M. Kealey, Millinery; W. G. Gardiner, Dairying; Miss H. Dumbrille, Stenographer.

The health of the herds and flocks at the farm has been excellent, and our dairy herds—both Holstein and Ayrshire—were fully accredited during the past summer.

A large number of breeding Yorkshires and Shropshires were sold during the past season, as were all our young bulls of breeding age. These should assist, materially, in improving the herds and flocks to which they have gone. One bull, K. A. S. Count, was bought at the satisfactory price of $800.

All heifers, and a few of our more mature cows, are running in R.O.P., and will have creditable records. We are not giving any of our Holsteins R.O.M. records, having considerably more faith in the long-period tests.

We exhibited Holsteins and Ayrshires at the Brockville, Central Canada, Royal Shows and Ottawa Winter Fair with considerable success. We won "Get-of-Sire," class at both Ottawa shows with the get of our bull "Count Rauwerd Rattler," besides being "in the money" with the majority of our entries, all of which were bred on the school farm. Three of our young Ayrshire females were selected for the Ontario herd which was shown at the "National" at Milwaukee in October, and which won first in the State herd prize. Our aged Holstein bull, Count Rauwerd Rattler, headed the herd of Ontario Holsteins which won similar honours in the same show in 1923.

The large number of farmer visitors to our institution during the past summer is an evidence of its increasing popularity. The annual reunion of ex-students in June was attended by over 60 per cent. of our former students.

On July 4th the Annual Junior Farmers' Picnic, which the Provincial Premier attended, drew a crowd of almost 3,000, while numerous county automobile parties spent a day at our school during the summer months. Approximately, 5,000 visited our institution during 1924, and many have already stated their intention of paying us a visit during the coming summer.

The demand from Eastern Ontario counties for lectures and demonstrations by members of our teaching staff has very greatly increased during the past year, to such an extent, in fact, that we have been compelled to refuse several requests for help during the winter months, so that lectures to our students would not be seriously interfered with.

The report of the Field Husbandry and Chemistry Department is herewith submitted:—

The season of 1924 was a favourable one for the production of field crops. More than one hundred tons of alfalfa hay were harvested this year, with an average yield per acre of 2.64 tons. The reliability of this crop for Eastern Ontario conditions may be indicated by one of the fields which has been growing alfalfa for five years, which produced this year a higher yield than in any previous year. Even more dependence will be placed upon this crop in the future than has been the case in the past, on the Kemptville Agricultural School Farm, as it has been noted that red clover is not so dependable, and it appears to be no longer profitable to spend money in buying red clover, which so frequently kills out in the spring. The seeding mixture for 1925 will consist of alfalfa and alsike alone.

The cereals also did well, there being about two hundred and fifty bushels of registered barley and about the same of registered Alaska oats. The season of 1924 was the first in which we grew the Alaska oat, and the indications are that it is a variety which will escape infestations of rust somewhat better than the later maturing varieties.

Mangels and turnips continue to be produced profitably, the yields per acre being 17.2 and 19.9 respectively, with a cost per ton of $4.85 for mangels, and $3.94 for turnips.

Our past experience with corn has again been duplicated in being a difficult crop to produce profitably.

Ten and one-half acres of sweet clover were grown this year for silage purposes, giving a yield per acre of 7.5 tons. The silage was well cured, and is proving a very satisfactory and cheap silage for dairy cattle.

The first crop of winter wheat was produced on the Kemptville Agricultural School Farm in 1924, the variety being Kharkov. With the exception of a small portion of the field which was killed out, due to waterlogging of the soil, the remainder of the field yielded slightly over forty bushels per acre. We were successful in getting this variety registered by the Canadian Seed Growers' Association. This crop fits in exceptionally well, where one is growing sweet clover for silage, as it allows the plowing up of the sweet clover and getting it in excellent condition for such crop as this, so that the land is under crop practically all of the time, and still improving in fertility.

During the past year, a new Marot grader was added to the seed cleaning plant. This is a machine which is designed to do very careful grading, and was found to be necessary in the production of seed of registerable grade. It is the intention to encourage the farmers in the surrounding vicinity to utilize this machine as much as possible, for the cleaning of their own grain for seeding purposes, an increasing number of whom are beginning to take advantage of this service. A large quantity of sweet clover is scarified and graded annually

for the farmers in Eastern Ontario. The basis upon which this particular department is conducted makes it of great convenience to the farmers and is sufficiently remunerative to be self-supporting.

Fertilizer tests were conducted on the Farm, consisting of many combinations of nitrogen, phosphoric acid and potash, the crops used in these tests being mangels, corn and potatoes. These tests have now been conducted for three consecutive years on the Farm, and the result of the past two years has been substantiated again this year, in that very little profit, if any, has been secured by the application of commercial fertilizer to these crops. The cheapest gain made in the mangels cost $5.75 per ton. The results of these tests for three years have decided for us that until more promising results are secured by fertilizers, it would be more profitable to discontinue their application. The explanation of these results may lie in the fact that we are plowing down clover residue very frequently in our crop rotation, and the land is, consequently, being built up.

Fertilizer tests were conducted in certain of the counties in Eastern Ontario on various crops, the results of which are briefly summarized below. These results indicate that on these types of soil the application of fertilizer has been a profitable investment, particularly those high in phosphoric acid.

Results of Fertilizer Plots on Farm of Mr. John Blane, Renfrew, Ont.
Crop: Potatoes, 1924

Plot No.	Yield per acre, bushels	Increase or decrease over check	Fertilizer used 64 lbs. plant food per acre	Cost of fertilizer	Net profit per acre from fertilizer, potatoes, 75c. per bushel
1	488.3	Plus 95	0-16- 0	$4 40	$66 85
2	425.	Plus 31.7	16- 0- 0	13 20	10 57
3	408.3	Plus 15	0- 0-16	3 79	7 46
4	393.3	.....	None.....	.....	.....
5	425.	Plus 31.7	3-10- 3	5 96	17 81
5	491.6	Plus 98.3	0-12- 4	4 25	69 47
7	458.3	Plus 65	4-12- 0	6 60	42 15

Results of Fertilizer Plot on Farm of Gordon Smith, Lansdowne, Ont.
Crop: Potatoes (Certified G.M.), 1924

Plot No.	Yield per acre, bushels	Increase or decrease over check	Fertilizer used	Cost of fertilizer	Net profit per acre from fertilizer, potatoes selling 75c. bushel
1	401.5	Plus 124.9	0-16- 0	$8 80	$84 87
2	375	Plus 88.4	16- 0- 0	26 40	37 90
3	415	Plus 138.4	0- 0-16	7 58	96 22
4	276.6	.....	.....	.....	.....
5	411.6	Plus 135	3-10- 3	11 92	89 33
6	336.6	Plus 46	0-12- 4	8 50	26 00
7	415	Plus 138.4	4-12- 0	13 20	90 60

Fertilizer experiments were also conducted on the farms of Mr. Fred Reed and Mr. J. E. McKay, of Brockville, the former on tomatoes, and the latter on celery. Close observation along with the checking up on weights secured,

indicate that phosphoric acid and potash are the needed materials on that type of soil, applications of nitrate of soda giving the lowest yields of any. With regard to the test on celery, applications of potash are most profitable.

Lime and phosphoric acid plots were also established on the farm of Mr. Galbraith, of Renfrew, upon which he is attempting for the first time to grow alfalfa. It is hoped that definite results will be secured from those plots during the coming summer.

Without exception, the experimenters have intimated their desire to continue these tests, as they feel they are getting some valuable information from them.

Development of the Poultry Plant

During the past year, the poultry plant was enlarged by the completion of a breeding-house consisting of eight pens; also, another colony house, ten by twelve feet, was built by the students under the direction of the instructor in farm mechanics. The present buildings comprise accommodation for about four hundred laying hens. The majority of these birds are white leghorns and barred plymouth rocks. A few representatives of other popular varieties are kept for breed studies and demonstration purposes with the students.

Yards are now under course of construction on the north and south side of all permanent houses. The birds will then be alternated in these runs, and in this way kept on clean and freshly-cultivated soil.

A pen each of barred rocks and white leghorns was entered in the Canadian contest for the year 1923-24. The white leghorns finished in fourth place, eighty pens competing. They were overtaken for third place by only seven eggs. Each bird in the pen laid an average of two hundred and twelve eggs. Two birds in the barred rock pen stood twelfth and thirteenth place for individual production in the whole contest. Trap-nesting was carried on with all birds on the home plant. The highest individual producer laid two hundred and eighty-five eggs in the year.

From November 1, 1923, until November 1, 1924, feed costs were kept on a pen of fifty-four white leghorn pullets. Figuring on conservative egg prices, these birds gave an average return of three dollars and sixty cents over cost of feed. Several ex-students are also co-operating with the department in keeping cost accounts.

During the spring months, as many eggs as could be spared were sold to the public for hatching purposes. The distribution of baby chicks was begun in a small way, but was confined, for the most part, to supplying students and ex-students of the institution. Next season, it may be possible somewhat to increase this branch of the work, as hatching accommodation has been increased by the addition of a Mammoth 1,000-egg incubator.

As usual, last winter term, each student crate-fattened a pen of four birds. A profit over cost of feed of forty-nine cents per bird was realized. During next term, besides crate fattening, each student will operate an incubator for one hatching period.

From each spring's hatch, about one hundred and fifty choice breeding cockerels have been supplied to individual flock owners, and to the breeding stations of eastern Ontario.

A poultry course of one week's duration was held last January. For this course, the staff of the poultry division of the Central Experimental Farm, Ottawa, gave excellent assistance. The classes were fairly well attended.

A pen of English ring-neck pheasants has been received from the Game and Fisheries Department. Work will at once be commenced in the propagation and distribution of these birds in Eastern Ontario.

Throughout the year, considerable extension poultry work has been done in co-operation with, and at the request of, the county representatives.

Bee Division

In the spring of 1924, the school apiary consisted of fifteen colonies of Italian bees. During the past summer, this number was increased by fifty per cent. Although production was somewhat handicapped by the making of increase, yet 1,750 pounds of surplus honey were harvested.

Out-door wintering in quadruple cases is practised. Last winter, all colonies, except one which was weak in the spring, came through in good condition.

Standard ten-frame Langstroth hives are in use. This department has a reversible four-frame extractor, and all other necessary equipment for the operation of a small apiary, and for successfully demonstrating bee-keeping practices to the students.

Department of Horticulture

During the past year, the horticultural work of the school has been further developed. The planting of trees and shrubs around the grounds and campus was added to, but there is yet an amount of filling and planting to be done in the immediate vicinity of the main building. The driveway through the school grounds is being improved by laying down a considerable quantity of gravel. This work, however, has not yet been completed.

Towards the close of the year, a small greenhouse, forty feet by fifteen feet, was built, and very materially improved the facilities for instruction to students in horticulture. This greenhouse, moreover, will fill the need for some means of starting early crops for the school garden.

The climatic conditions experienced during the past season, though unsatisfactory for the development of apple crops in mature orchards, proved most suitable for the young trees in the Kemptville School orchard. By employing lime, sulphur and arsenate of lead for the three standard sprays, a small crop of high quality fruit was obtained. The first spray was applied before the buds opened. The second was applied immediately after the petals fell, and the third, about three weeks later. Owing to an attack of green aphis on several trees, chiefly of the Fameuse variety, these trees were later sprayed with nicotine sulphate. The quality of the crop may be attested in part to the fact that, though the quantity of fruit from trees of this age was necessarily small, the quality was considered of sufficient merit to warrant packing some of it for shipment with the Ontario Exhibition of fruit sent to the International Fruit Exhibition held at the close of the year in London, England. Several orchards in the vicinity suffered severely from attack of the rose chafer. The injury was most noticeable on Duchess. The control of the pest, in our own orchard, was attributed to the fact that about one-third more arsenate of lead was employed in the spraying than is generally recommended.

The small home-canning equipment installed the year previously, was again employed to preserve material grown in the garden for school purposes. The material thus preserved consisted of approximately:

850 tins tomatoes
250 " corn
300 " apple preserves.

The Department of Forestry established a small nursery for growing several hundred thousand seedling trees for reforestation and wind-break purposes. The material consisted, briefly, of two or three-year-old seedlings of: Scotch pine, red pine, jack pine, Norway spruce, white spruce. Smaller quantities of the hardwood are also being grown, such as the black walnut, butternut, white ash, hard and soft maple, and elm.

A number of applications were received from farmers for this material last spring, and further applications are now being received for shipment, as soon as the season opens. The hardwood bush was planted last spring on some seven acres of waste and rocky land, school property. Coniferous, planted on eleven acres of poor land the spring previous, made satisfactory progress, though some small areas, where the material had not survived, were again replanted.

During the year, a number of lectures were given at outside points on horticultural topics, and several pruning demonstrations were undertaken. Assistance was rendered in the planning and planting of a number of farm homes and orchards. The writer also undertook the judging of fruits, flowers and vegetables at a number of fall fairs.

AGRICULTURAL DEVELOPMENT BOARD

This branch, which has charge of the loans on farm lands for agricultural development, has had a reasonably satisfactory year. The following table gives the number of applications passed compared to the number in previous years:

	Number of applications passed	Amount of loans passed	Value of security
1922	458	$2,040,605 00	$4,693,304 00
1923	953	3,729,350 00	8,685,166 00
1924	990	3,582,150 00	7,871,926 25
Total	2,401	$9,352,105 00	$21,249,496 25

The amount actually paid out is, of course, considerably less than the amount passed, being in the neighbourhood of $7,000,000. The difference is due to the number of loans which are in the legal department awaiting consideration at the close of the year, and the comparatively smaller number where the applicant has not accepted the amount offered after it has been passed. The greater proportion of applications was received in the early part of the year. The loans granted in Old Ontario numbered 732, and aggregated $3,126,600, while the loans granted in New Ontario aggregated 258, and amounted to $455,550. It will be noticed that the amount loaned is considerably less than fifty per cent. of the aggregate value of the security, which is as might be expected, in view of the fact that no loan has been made in excess of fifty per cent.

Repayments have been made in a comparatively satisfactory manner, having regard to the conditions which prevailed in the agricultural industry during the earlier part of the year. There have been only five foreclosures, four of which have been voluntary, and the fifth due to irregularities. These properties have been disposed of without any loss of principal and with a loss of a little less than $1,000 of interest. In regard to the repayments themselves, it may be stated that the amount outstanding at the close of the previous fiscal year has been all paid up, with the exception of a few hundred dollars which are secured by sale notes realizing in the course of a few months. Then on December 1, 1923, the sum of $105,807.12 was due, and of this all but $2,992.44, or 2.83 per cent. has been paid up. On or about May 31, the sum of $106,609.77 was due, and $18,-276.39 or 17.14 per cent. is outstanding at the close of the year after a period of five months. The security in all cases is said to be good.

An administrative surplus of $26,705.34 is shown for the year. The revenue comprises inspection fees, legal fees and the one per cent. difference in the amount which the Board pays on its bonds and debentures, and the rate charged to borrowers. The expenditures include all costs of administration and accrued interest on bonds and debentures. This surplus with increasing volume of business should increase in future years and make provision for any losses which may be encountered. During the year, the Board has installed its own legal department, and has been able to render reasonably prompt service to borrowers at minimum charges.

The following table gives the present situation in regard to short-term loan associations.

FARM LOANS—SHORT TERM

Association	No. of borrowers		Loans Oct. 31, 1923	New Oct. 31, 1923-24	Principal received	Interest due	Interest received	Balance loans Oct. 31, 1924
	Oct. 31, 1923	Oct. 31, 1924						
Balfour-Rayside	49	37	$19,737 50	.....	$6,804 03	$1,355 68	$1,026 81	$12,933 47
Cosby-Martland	29	20	6,727 37	.....	2,981 35	442 37	434 25	3,746 02
Downie	28	23	23,264 96	1,100 00	6,947 33	1,608 54	1,608 54	17,417 63
Ekfrid	30	24	23,460 00	2,550 00	8,275 00	1,384 15	1,379 88	17,735 00
Esquesing	30	24	25,934 00	2,300 00	5,679 37	1,620 84	1,572 76	22,554 63
Glanford	12	12	9,900 00	4,450 00	2,981 35	568 13	589 69	11,368 65
Howard	18	19	13,750 00	1,200 00	4,204 44	886 18	900 59	10,745 56
Mosa	16	18	9,760 00	4,075 00	3,975 00	424 90	424 90	9,860 00
Nassagaweya	28	23	18,061 60	3,625 00	7,948 72	1,210 01	1,177 51	13,737 88
Nelson	26	21	19,700 00	3,250 00	4,875 00	1,291 69	1,226 52	18,075 00
North Grimsby	30	26	23,750 00	10,200 00	15,374 87	1,278 33	1,286 74	18,575 13
Roxboro	26	21	17,300 00	1,700 00	3,200 00	1,020 63	1,020 63	15,800 00
Sault Ste. Marie	16	16	6,477 97	2,975 00	5,700 00	469 89	462 64	3,752 97
Seneca	7	8	3,575 00	800 00	.....	166 73	166 73	4,375 00
Toronto	25	19	31,125 00	3,875 00	16,974 20	2,013 41	2,034 72	18,025 80
Trafalgar	29	33	27,150 00	11,650 00	6,100 00	1,309 92	1,309 92	32,700 00
	399	344	$279,673 40	$53,750 00	$102,020 66	$17,051 40	$16,622 83	$231,402 74

RIDGETOWN EXPERIMENTAL FARM

The season of 1924 was somewhat abnormal; the spring was later than usual and cool, the summer was cool, the autumn dry and reasonably warm. Potatoes, sugar beets and other root crops flourished, spring grains, though not promising early in the season, gave good yields, wheat was excellent, while corn, because of the cool weather and the ravages of the corn borer, was below the average. The bean crop was below the average and, in many sections, considerable disease developed.

The following shows the rainfall during the growing season:

April	3.03	inches
May	2.95	"
June	3.70	"
July	2.00	"
August	1.19	"
September	5.27	"
October	.43	"
Total	18.57	"

Crop yields on the farm were satisfactory:

14	acres	barley	yielded	590	bushels
20	"	wheat	"	600	"
20	"	oats	"	1,520	"
10	"	oats	"	625	"
18	"	beans	"	360	"
4	"	soy beans	"	100	"

The hay crop was fair. The corn crop promised to be excellent, but the continued cool weather during late August and early September prevented proper ripening; the corn-borer infestation reached forty-six per cent., thus preventing at least one-third of the ears from reaching the normal size. The silo was filled, but the quality is not equal to that of 1923.

Underdrainage

Approximately 120 acres required underdrains. The work was started in the fall of 1922; tile was put in eight acres of black muck, which was broken up the previous August. Fifty-five acres were tiled during 1923, and about ten acres in 1924. Thirty thousand tile are on hand and will meet the requirements for the balance of the farm, except for a demonstration drainage field, which will have drains at various distances apart and at various depths, in order to ascertain if possible, the best possible width and depth at which drains should be installed.

Extension and Investigational Work

Much time was given and many meetings were attended in connection with the Ontario Bean Growers' Association. The commercial handling of beans on a co-operative basis did not materialize, but the movement is still very much alive.

The management of the Peninsular Winter Fair was undertaken in order that the experiment might be tried; the show was successful.

Some time was given to the organization of an agricultural school in conjunction with the high school of the town of Ridgetown. Over 100 out of 160 pupils attending are from the farms, and are entitled to an equal opportunity,

educationally, as the children in the towns and cities. The school should endeavour to give such pupils a general grounding in elementary agricultural work, with emphasis on the special crops in south-western Ontario and, at the same time, give them the essentials for an academic education.

The rapid increase of the corn-borer throughout the south-western counties caused considerable anxiety, and steps were taken for controlling the spread. Meetings were arranged and a general campaign outlined.

Two members of the faculty of the Ontario Agricultural College gave considerable time to the study of plant diseases, seed selection and cross breeding of beans and corn upon the farm.

Beans were used from selected plants of the 1923 crop grown on the farm, the source of seed being as follows: Michigan, New York (Ithaca), Wisconsin, and the Department of Botany, O.A.C. Particular data was obtained with reference to bean mosaic and anthracnose. Roguing for mosaic was carried out rigorously. A very careful estimate was made of the amount of anthracnose present. Individual plant selections were made of healthy, heavy-yielding plants of the correct type. Crosses were made in an attempt to secure plants of the desired type resistant to mosaic and anthracnose.

On the Experimental Farm, fourteen oat plots (1/80th of an acre in size) were planted in triplicate for the purpose of testing out various substances for the control of smut. Thirteen different substances were used, the fourteenth plot being a check. In addition to formalin, only two other substances gave complete control of smut.

Celery.—Two experiments for the control of celery blight by spraying with Bordeaux were conducted, one of these at Ridgetown and the other at Blenheim. In the first one the plants were sprayed once a week in the field for ten weeks. As no blight was showing at this time, spraying was discontinued. Blight had been very bad in the same garden during the previous season. In the second experiment, the plants were sprayed once a week for ten weeks after being set in the field. In one part of the field no blight developed, either on the sprayed rows or checks, whereas in the other part some blight developed on the sprayed rows and quite badly on the checks.

Blackberries and Thimbleberries.—As anthracnose has been causing serious damage to these bushes, two experiments were undertaken. One experiment gave very good results, but in the other, results were only fairly satisfactory.

Cucumbers.—In the Leamington district, anthracnose has been causing considerable damage in many of the greenhouses, so an experiment was conducted for the control of this disease. Spraying was started in one greenhouse when plants were about three or four feet high, and five sprayings were put on at intervals of one week, then a sixth after a period of two weeks. The disease did not develop until a large part of the crop was harvested; however, the experiment was sufficient to show that the disease can be controlled by spraying with Bordeaux.

Onions.—In the Pelee onion marshes smut is very much on the increase, but experiments in the use of formalin as a means of control are under way. Practically all the growers use hand seeders when sowing, so during this season an Iron King seeder belonging to the Department of Botany, Ontario Agricultural College, has been equipped with a formalin tank and left with one of the growers for demonstration and use next spring.

During the spring, before the early tomato plants were set in the field, a few cases of severe rhizoctonia developed in greenhouses. Steam sterilization of the soil in such cases has been recommended for the 1925 crop.

In addition to the above, various inquiries have been received in reference to the control of numerous other diseases which often become troublesome, such as apple scab, fire blight, brown rot of plums, peach leaf curl, shot hole or yellow leaf of cherry, orange rust of blackberries, leaf curl and mosaic of raspberries, leaf spot or blight of tomatoes and various potato diseases.

Considerable experimental and investigational work is required and, during 1925, the following experiments will be carried on:

1. Further tests in treatment of oats for smut.
2. Sowing of beans from plants free from anthracnose and mosaic as compared with the ordinary crop.
3. Spraying and dusting of celery for control of blight.
4. Experiments for control of anthracnose on cucumbers in greenhouse.
6. Experiments for control of anthracnose on black raspberries.
6. Spraying currant and gooseberry bushes for leaf diseases to prevent early defoliation.
7. Experiments using formalin solution of different strengths for the control of onion smut.

Vegetable Work

Variety tests were conducted on the following—cabbage, celery, head lettuce, onions and tomatoes.

Celery.—Eighteen strains and varieties of celery were listed and fourteen breeding lots transferred from the Ontario Agricultural College. The conclusions reached were that in general, the old strains of Paris Golden self-blanching seem to be better adapted to muck soil conditions than the new strains, except where celery is grown for summer market and immediate sale. The new, more vigorous strains seemed to mature quickly and when well-blanched must be sold or they become pithy and, therefore, inferior.

The strains that proved superior were: Paris golden self-blanching eberle; Paris golden self-blanching midgeley; Paris golden self-blanching Jerome B. Rice; Paris golden self-blanching (new type) vilmorin; easy-blanching eberle. The last two strains mentioned seemed superior strains of the newer type. The first-mentioned was good for summer cropping, the last as an easy blanching main crop celery.

Cabbage.—The new variety of cabbage, namely Golden Acre, was tested against such standard varieties as Copenhagen, Early Express and Early Jersey Wakefield. It was found that the variety is a round head cabbage, and cuts at approximately the same season as Jersey Wakefield. The plants mature very uniformly. However, a considerable variation in the strains from different seed firms was shown, and the variety seems to have a tendency to split quickly after producing a marketable head. A variety named Eberle's Wonderful did very well under our conditions.

Corn.—Varieties of corn were tested as to season of ripening. Of the important varieties produced White Cory was nine days earlier than Golden Bantam, and Golden Bantam produced marketable ears seventeen days before either Stowell's Evergreen or Bantam Evergreen.

Head Lettuce.—In the head lettuce tests three varieties of the cabbage head type seemed well adapted for the district—namely, Iceberg, Nonpareil and New York or Wonderful. The last-mentioned proved to be a later strain of this type of lettuce. In the other head types the Wayahead showed up well.

Onions.—Onions were tested on muck soil. Of the varieties tested, Southport Yellow Globe and Yellow Globe Danvers seem best adapted when early maturity and total yield is considered, to the locality. A strain of Spanish onions, Riverside Sweet Spanish, did well for onions of this type. Under test at the Department of Horticulture at the Ontario Agricultural College, a variety of set onions, Ebenezer, proved most successful in the production of good, early, mature onions.

Tomatoes.—Some forty-five strains or varieties of tomatoes were tested out for adaptability for the district. Of the standard varieties good strains of Earliana seem best adapted to the district. However, one newer variety gives some promise and should be tested out extensively. The variety Wayahead produced early fruit of good colour and smoothness. For main crop for canning Purposes, John Baer and Bonny Best showed up well, although two varieties, namely, Reeves' Seedling and New Red Head gave excellent promise in this regard. A striking fact was brought out in these tests. Varieties showed much variation when procured from different sources. Most particularly in Bonny Best some strains showed much superior to others.

Breeding material was transferred from the College to the Experimental Station, and tests of the strains were made. Second generation crosses of cucumbers were grown, both of pickling and slicing types, and promising material was found.

The most extensive work was done, however, in tomatoes of the John Baer-Earliana cross—"Canadian." Some seven hundred plants of this variety were grown, and individual records of each plant kept. Some thirty-five plant selections were made from the plants of best type. A careful consideration of earliness, yield, colour and smoothness was made. These progeny lots will be tested in 1925. As an early variety the "Canadian" did exceedingly well. The earliest plants produced fruit as early as Earliana, and the quality and yield were much superior. It is expected that in the new test, lots more uniform early strains will be found.

An experiment was conducted to determine the relative value of manure and commercial fertilizer in cucumber and melon growing and whether or not as good results could be obtained from the use of manure along the row or in the hill, as when manure was broadcast.

The results indicate that manure is essential in the production of good crops, but that as good results may be obtained when manure is placed along the row, or in the hill, as where it is broadcast, with a very great saving of manure.

Fertilizer Tests

The use of commercial fertilizers is increasing very rapidly. In order to more definitely determine the most economical mixtures to use, a series of tests on farms in the county were arranged over a period of years. The results will be of particular value to the potato, sugar beet and bean growers.

The Chemistry Department of the Ontario Agricultural College, Guelph, co-operated closely in this work. They supplied and mixed all fertilizer; the arranging for plots, sowing of fertilizer and harvesting were undertaken by the farm. All duplication is thereby done away with and the benefit of the experience of the chemistry department elsewhere is brought to bear on this situation; it is also coupled with the soil survey work.

The triangle experiment was used in potatoes, sugar beets and beans.

That conclusions cannot be drawn from one season's experiments was amply demonstrated this year; the mixtures which gave best returns in 1923 were not so generally satisfactory in 1924. It will be necessary to carry on over a period of years, consequently no comments can be safely made on this year's work, but in the meantime, the information has been placed before the people affected.

Potatoes

Last year, it was noted that the mixtures used on plots one to five, and sixteen to twenty-one inclusive, were the most promising; a study of this year's work substantiates that finding in spite of the abnormally cool season. The mixtures were applied at the rate of 800 pounds per acre.

Potatoes were valued at $1.00 per bag.

Beef Cattle—Steers

(Fed during Winter of 1923-24)

25 steers, average weight 1,145.6 lbs.; total weight 28,640 lbs., @ $6.40		$1,832 96
Delivered at Ridgetown		
Two steers died ten days after arrival, loss		2,291.2 lbs.
Weight after loss deducted		26,349 lbs.
Total selling weight		31,395 "
Total gain		5,046 lbs.
Total gain per steer	219 lbs.	
Fed for 113 days—Gain per day	1,938 lbs.	
Grain fed—Corn, barley, oats, oilmeal and soy bean meal.		
Oil meal—1 lb. per day.		
Soy bean meal started very slowly and increased to 1 lb. per day.		
Grain started at 2 lbs. per day—finished at 8 lbs. per day.		
Roughage—Cotnstalks only.		
Grain consumed:		
4,644 lbs. corn @ 1¼ cts. lb.	$58 05	
4,644 " barley @ 1¼ "	58 05	
187 " oats @ 1¼ "	2 34	
2,476 " oilcake @ 3¼ "	80 47	
1,024 " beans @ 3¼ "	33 28	
Total ensilage—46½ tons @ $3.00 per ton	139 50	
Roughage—10 loads fodder @ $4.00	40 00	
Total cost feed	$411 69	
Cost steers	1,832 96	
Total cost	$2,244 65	
Selling price—20 steers, weight 27,660 @ $7.75		$2,143 65
3 steers, weight 3,735 @ 7.40		276 39
		$2,420 04
Gain over cost	$175 39	

Total gain of 5,046 lbs. cost $411.69 or 8.15 cts. per lb.

Swine

The stock of hogs ranged from 125 to 210, composed of Yorkshires, Tamworths, Berkshires, Chesters, Durocs and Polands. Three stock boars are on hand, two Yorkshires and one Tamworth. The purchase of the imported Tamworth hog improved the quality very much and considerable d mand for sows developed as a result. Up to date, the experimental work was emphasized, but the demand for breeding stock will be met in so far as possible in the future.

Fourteen brood sows were sold during the past season.

The swine experiments were arranged to throw light on the situation in south-western Ontario, because a great deal of controversy centred around the result of a system of farming and the particular type or types of hogs produced,

and the effect of throwing upon the market of large numbers of fat types, which were claimed by many to be detrimental to the outlook of the Canadian bacon trade in Great Britain. The efforts made to establish the bacon hog in south-western Ontario had failed, and there seemed to be no satisfactory explanation why such should be the case. Practical men in Essex and Kent knew that certain things happened in connection with this work; practical men in other parts of the country could not understand why such results were obtained. The Canadian packers urged that a change in the type of hogs would be beneficial.

In other parts of Canada, dairy by-products played a large part in the production of hogs and, while some fed considerable corn, never was it used to the same proportion as in Essex and Kent. The feeder using the dairy by-products automatically feeds much nearer to a balanced ration than do the men who have quantities of corn at their disposal. The general idea was that the corn was detrimental and produced a thick, fat type of hog, and was wholly responsible for the situation. Indirectly, this, perhaps, was correct. The question became largely, from an experimental standpoint, one of whether corn was detrimental, if fed in a properly balanced ration, because it was common knowledge that the Danes imported very largely American corn for the finishing of their hogs, of course supplementing it with dairy by-products.

Experiments were planned, embracing all breeds of pure-bred hog, with the definite idea of answering the following questions:

(1) Can the thick, fat hog be improved and fed and thereby produce Wiltshire sides which will meet the requirements of the British market?
(2) Can the so-called bacon breeds, and especially the Yorkshires, make gains as cheaply and as quickly as the thick, fat breeds, when fed under southwestern conditions?
(3) Will the bacon breeds, when fed upon at least 70 per cent. corn, produce Wiltshire sides?
(4) Would it be advantageous to use crossbred hogs for general production?

The pigs that were raised on the farm did not receive any corn until twelve to fourteen weeks of age, when it was introduced and gradually increased up to seventy per cent. of the total ration. Middlings were used at the commencement but very quickly were replaced with corn. Tankage was used as a balancer. The final ration was seventy per cent. corn; twenty-two per cent. oats, and eight per cent. tankage.

The questions upon which the experiments were founded might be considered in order:—

(1) Undoubtedly the thick, fat hog can be improved by selection and, perhaps, by the infusion of some outside blood, but it is questionable whether such pigs, regarded as a pure-bred breed, would be as satisfactory as other breeds for the production of bacon. They are, however, valuable for crossing purposes, and the improved types now recognized by the breeders make excellent crosses with some of the larger, more rangy breeds of hogs. They are also particularly well adapted for the system of farming at present followed in south-western Ontario, and, when crossed, no doubt some of the factors controlling this adaptability are transmitted to the offspring. It is questionable whether it would pay to endeavour to develop any of the so-called type of hogs to a point where they would be suitable for the British market in large numbers, when there are other breeds which are eminently suited for such trade, but it will be advantageous to foster, for some time to come, the improved types of lard breeds.

(2) The bacon breeds, if not of the very extreme type, when properly fed under south-western conditions, will make gains as cheaply and as quickly as

the thick, smooth breeds, and will use a large percentage of corn in the ration, and will produce a product carrying a higher actual value than will the thick, smooth carcass.

(3) The seventy per cent. corn can be used in the finishing rations of bacon hogs, and it does not have any detrimental effects, provided the ration is balanced. The quality of Wiltshires produced compares very favourably with that of those produced from hogs raised largely on dairy by-products.

(4) The cross-bred hog, which is the result of a cross of one pure-bred breed upon another pure-bred breed, has throughout the three years exhibited a thriftiness and a general tendency towards low cost of production, which would seem to indicate that such a practice would be valuable for raising ordinary commercial hogs, and such crosses as the York and Tam, York and Chester, Tam and Duroc, Berk and Tam, Berk and York, and others, might well be considered. The principle of crossing two pure-bred breeds and the advantages to be gained thereby have long been well understood and recognized. By such crosses, the general quality of the finished product, where the thick smooth type prevails, can be improved, and, in many cases, secure a percentage of selects, which would be impossible if thick smooth pigs were used exclusively. The use, however, of any of the progeny for breeding purposes cannot as yet be recommended.

The results of the first two years' experiments were sufficient to indicate that there was no particularly good reason why Essex and Kent should not produce at least forty to fifty per cent. selects, and use all of the corn available in the rations fed.

So far, in the experimental work, it would appear to be quite patent that bacon satisfactory for the British market can be produced in south-western Ontario with a ration consisting of seventy per cent. corn for finishing, provided it is balanced, and provided a type of hog is bred that will be of the correct conformation when finished.

There is, however, a place at the present time for the improved lard type, because the balancing of rations cannot be accomplished throughout the entire territory quickly, and because of their value for crossing purposes.

The type of hog which will produce a satisfactory Wiltshire side will, in the greater majority of cases, make cheaper gains, and will take no longer to develop than a thick, smooth type.

The behaviour of the various types of hogs on balanced and unbalanced rations will be studied in further tests.

NEW LISKEARD DEMONSTRATION FARM

The season has been a very favourable one for farm operations in so far as weather conditions are concerned. During the winter a fair amount of snow fell that gave protection to clover crops, and prevented the frost from going too deep. This is important as a light snowfall means a great depth of frost in the ground and late seeding. The snow went off slowly the middle of April, with no damage by flooding or washing of the soil. The first seeding of the plots was done on April 30, but the ground was too soft for horses. Farm seeding commenced about May 10, was general in the district by the 15th, and well completed by the first week in June. On newly-cleared land, seedings of early oats and barley were made as late as the 20th of June, and fair crops obtained.

A fair amount of rain fell during the summer months, sufficient for growth, but not enough to hinder haying and harvesting operations. The fall months were very dry, little rain fell during September and October. This dry spell resulted in the land becoming very hard for fall plowing and a shortage of water in many farm wells. As no considerable amount of rain fell before the freeze-up, the water shortage continued through the winter.

Farm Operations

A new barn has been erected, 40 feet by 100 feet, with stable underneath, and with a previous structure now gives good barn and stable accommodation for the farm crops, horses, cattle and sheep. A number of features included in the building should be desirable in this district, where real cold spells occur at times during the winter. The silos are built inside with room to pack straw around them in the barn, they also extend six feet below the stable floor, to give greater storage room, free from frost danger. Root storage is provided partly below ground level, to make frost protection more secure. High posts in the barn give a large storage capacity for hay and straw. The stable wall and ceiling have been well built to keep out cold, as it has been found that a stable with proper air space and sufficient windows cannot be kept warm and well-ventilated, if a lot of cold is radiated from cold walls, doors and windows. Up-to-date stable fixtures have been used, one-half of the stalls equipped with stanchion ties and the other half, chains. The merits or objection of each will be observed.

During the season a mile of woven wire fence has been erected, but there is still considerable to be done to complete the fencing of all the fields. All the land on the east lot has been cleared, giving a block of 160 acres of very fine, uniform land. Some of the newly-cleared land was cropped, but the greater portion disked from time to time, to bring the soil into good condition for future crops.

General Farm Work

With the farm land all cleared, the most of the fences and fields located, a regular cropping system or rotation will soon be possible.

With little stock, that required only a small area for pasture, hay occupied too much of the farm land. A yield of from one and one-half to two tons per acre was obtained, that was taken off at a cost of three dollars per ton. Oats had the largest area of the grain crops, and on the best fields yielded eighty bushels per acre. Peas were not a large crop as there was a shortage of good seed, but a

yield of thirty bushels per acre was obtained. A small field of barley yielded sixty bushels per acre. Barley as food for cows, steers and hogs, might have a larger place than it now enjoys in the district.

As a silage crop of twelve acres of corn and sunflowers were grown, half of each, sown alone. The sunflowers were a very fine crop, and would yield about sixteen tons per acre. The corn did not do so well, though a very fair crop that would average from seven to eight feet in height. As there was some delay in getting the silos completed, the corn was badly frozen, and did not yield as it would have if harvested earlier. The total cost of growing and harvesting these crops was four dollars per ton, a higher cost than we would expect in the future for average crops.

Alfalfa has done very well on trial plots, yielding at the rate of four and one-quarter tons of dry hay per acre at two cuttings. A twenty-acre field was sown in June, without a nurse crop and went into winter in a very promising condition. Peel County variegated seed was used, sown on a clay soil with good natural drainage. A good deal of interest has been shown by the farmers of the district in the showing made by the alfalfa plots. These have shown that sowing without a nurse crop at the rate of from fifteen to twenty pounds per acre is best.

Live Stock

Horses are kept for farm work only, and no changes have been made in the three teams during the year. They have been busy almost every day, during the winter, hauling building material and manure, and in the summer at farm work.

The other live stock consists of sheep only. They have given a lamb crop of a lamb to the ewe, and a wool clip of ten and one-half pounds per sheep.

The sale of pure-bred rams has continued the past season, in co-operation with the Live Stock Branch, who supplied twenty-five rams for this purpose. The total sales to date has been twenty-four, the same as for the previous year.

Plot Work with Field Crops

This experimental work has been continued and extended along the lines started the previous year. The trials in general may be divided into those of varieties, dates of seeding and rates of seeding.

In the variety tests with oats, Ontario Agricultural College 144 came first with a yield at the rate of 108 bushels per acre. This variety is a few days later than the Banner, that came next with a yield of 104 bushels. It is strong in the straw, and has a large leaf development. With wheat the Marquis again showed its superiority as a variety for this district on fertile soil. In peas, a number of varieties show marked promise, especially the Potter, Early Raymond and Chancellor.

Rates of seeding tests confirm the results of the previous years' trials with oats, showing that a heavier seeding than is generally practised will give increased yields of oats and barley. For these grains, three and one-half bushels per acre is suggested. The value of the increased rate with wheat and peas was not so marked, as there was a loss in quality with the greater yield following thick seeding.

The date of seeding trials support the common practice of sowing wheat as early as possible, and showed that late oats might be sown any time in a period of two or three weeks for good results, and early oats and barley over a period of six weeks, and fair yields of ripe grain obtained.

A number of plots were sown with crops not usually grown in the district that were of interest, in that they were grown so well in this district. Soudan grass developed well and gave a yield of eight tons of green fodder per acre. Habara or Soyja beans yielded eight and one-half tons, Millet grew well, but was just heading out when killed by frost, and yielded eleven and one-half tons in a green condition. Sugar cane attained a height of four feet, but the yield was very small.

One of our men made a special study of corn, and in this work has fifty-six varieties under test. While the trials were not entirely satisfactory, a few very early varieties for table use were found. The most promising is Howe's Alberta Flint, followed by Manitoba Amber. These two varieties are fully two weeks earlier than the Golden Bantam, the common variety for table use, and are specially recommended for trial in the district.

In the plot work with grains and fodder crops, plots one one-hundredth of an acre in size were used, of which there were 270. Trials with corn, potatoes and vegetable were made in rows, of which there were 160 different lots.

Garden and Orchard

Tests with varieties of garden vegetable were made, but from results obtained so far, recommendations cannot be made with confidence. Strawberries, currants and gooseberries were encouraged to multiply rather than bear fruit. Of the fifty-six fruit trees set out in the spring of 1923, fully eighty per cent. have grown. The temporary wind-break provided by several rows of sunflowers, left uncut in the fall, has been very effective in holding a bank of snow as protection for the garden and orchard during the winter, and in delaying growth in the early spring.

Visitors

An increase in the interest in the work of the farm has been very marked. Quite a number of farmers have come in from time to time for a short visit to see the crops. A number of large parties, including the British scientists, and the excursion of school teachers, were in to see the experimental plot, and had the nature of the work explained to them. The local plowmen's association held their first match at the farm, with an attendance of over 300.

It is hoped that another year it will be possible to resume the farmers' railway excursions that were so popular a few years ago.

Ontario Department of Agriculture

FIFTIETH ANNUAL REPORT

OF THE

Ontario Agricultural College

AND

Experimental Farm

1924

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Ontario Agricultural College

and Experimental Farm

1924

To the Honourable the Minister of Agriculture.

SIR:—I beg to submit herewith my Fifth Annual Report as President of the Ontario Agricultural College.

FIFTIETH ANNIVERSARY

The outstanding event of the year was the observation of the fiftieth anniversary of the opening of the college. With the approach of this event it was felt that there should be a fitting observance. Hence a committee representing the College Faculty, the Department of Agriculture, the Alumni and Alumnae Associations was organized well in advance and plans were carefully thought out and given adequate preliminary publicity. The event fully justified the thought and energy devoted to it. It was held during the week of June the 9th. Favoured by beautiful weather, the college campus and buildings were all most attractive and welcomed hundreds of former graduates and thousands of friends of the Institution from many parts.

One of the most interesting and impressive events of the week was the opening of the memorial hall. Soon after the conclusion of the war the matter of erecting some fitting memorial to the large number of graduates and undergraduates who went overseas was taken up. It was decided that a memorial hall would be the most fitting form in which to commemorate the heroic deeds of those who carried the name of the college to the scene of war. It was felt that graduates and undergraduates would desire an intimate part in this undertaking and hence a subscription was opened in 1919. Altogether more than $40,000 was raised in this way, this amount including the large amount of very small subscriptions from hundreds of graduates and undergraduates or friends of the institution. This was generously augmented by the Government and a hall costing in the neighbourhood of $150,000 was erected on the campus. It is generally agreed that no finer war memorial can be found in beauty of design, in excellence of execution, or in earnestness of purpose. The formal opening and dedication of this fine addition to the college equipment was therefore an important part of the week's ceremonies.

The celebration of the semi-centennial spread over the entire week and the following record is set down for purposes of reference:

History and Reminiscence.—On Monday evening, June 9th, the president of the college gave an address outlining the purpose and the progress of the college. Dr. Creelman spoke of a visit he had recently made to Western Canada, and of the men of the O.A.C. whom he had met on that trip.

Dr. Peter Bryce, of Ottawa, and Mr. A. A. McTavish, K.C., of Guelph, both members of the college staff in the eighteen-seventies, recounted some experiences gained in the college at that period.

Dr. F. C. Harrison, Principal of Macdonald College, Quebec, was chairman. Dr. James Mills and Dr. J. W. Robertson had accepted invitations to be present, but were prevented by illness.

Opening of the Memorial Hall.—It required some urging to secure the completion of the new memorial hall in readiness for the week of celebration. It was completed, however, and stands as a beautiful and worthy monument to the heroic souls whose names are entered on the Memorial Tablet and the Book of Remembrance.

In a chamber in the memorial hall a beautiful bronze tablet bears the names of those members of the college, ex-students, students, and faculty, who lost their lives in the war. An angel with arms outstretched and wings upraised forms the centre of the tablet. A selection from "Flanders Field" forms a fitting inscription at the head of the tablet, for Colonel McCrae was at one time a member of the college staff:

"To you from failing hands we throw
The torch; be yours to hold it high,
If ye break faith with us who die
We shall not sleep, though poppies grow
In Flanders Field."

At the foot of the tablet is a selection from Duncan Campbell Scott:

"But we who know they saved the world
Think of them joined to that unwithered throng
Who in the long dread strife
Have thought and fought for liberty,
These are the true immortals
The deathless ones that saved the world."

In the same chamber under a glass cover is the Book of Remembrance containing the names, engrossed in vellum, of all members of the college who enlisted.

The hall was formally dedicated at the memorial service on Tuesday afternoon by the Reverend Canon Cody. General Sir Arthur Currie then delivered the memorial address, and unveiled the memorial tablet.

Meetings of Societies.—During the forenoons of the week, Tuesday to Friday, meetings were held of the following associations: The Canadian Society of Technical Agriculturists, The Canadian Seed Growers' Association, The Ontario Agricultural and Experimental Union.

Farmers' Days.—On Thursday and Friday afternoons, the farmers of Ontario were present in large numbers to do honour to their own particular institution. The proceedings on these two days were marked by parades of college live stock and of floats representing the contribution of each department of the college to agricultural progress. In the procession was a yoke of oxen driven by their owner, a farmer living within twenty miles from the college; floats carrying farm and household implements used in pioneer days; and implements of the latest pattern.

Presentation of Fraternal Delegates.—On Thursday evening a public meeting was held in the Memorial Hall under the auspices of the Canadian Society of Technical Agriculturists. The meeting was addressed by J. H. Grisdale, Deputy Minister of Agriculture for Canada, and H. M. Tory, President of the University of Alberta.

An interesting part of this evening's proceedings was the reception of delegates representing other colleges, alumni of the college, and organizations affiliated with agriculture. These delegates were formally presented by Professor Harcourt, and received by President Reynolds:

Delegates

University of Alberta, Dr. Tory.
University of Arkansas, B. A. Hooper.
University of British Columbia, Dean Clement.
University of California, Dr. W. H. Chandler.
Cornell University, Dr. Cornelius Betten.
Montreal University, Rev. Father Leopold.
Macdonald College, Dr. F. C. Harrison.
Manitoba Agricultural College, Prof. Broderick.
University of Maine, Prof. J. W. Gowen.
McMaster University, Prof. Mitchell.
Michigan Agricultural College, Dr. Hoffman.
Montana State College, President Alfred Atkinson.
University of Nebraska, Director R. W. Thatcher.
Macdonald Institute, Miss Cruikshank.
Ontario College of Art, Miss Jean Cameron.
Illinois State University, Dr. Burlison.
Purdue University, G. I. Christie.
Queen's University, Prof. W. T. MacClement.
South Dakota State College, Dr. Guy E. Youngberg.
St. Francis Xavier's College, Rev. Miles Tompkins.
University of Toronto, President Robt. A. Falconer.
Western University, Prof. E. H. Morrow.
West Virginia College of Agriculture, Prof. E. C. Stillwell.
University of Wisconsin, Dr. B. H. Hibbard.
Ontario Veterinary College, Dr. McGilvray.
Auckland, N.Z., University, Hon. Geo. Fowlds.
Canadian Society of Technical Agriculturists, Prof. H. H. Barton.
Industrial Development Council of Canadian Meat Packers, S. E. Todd.
Canadian Pacific Railway Company, James Dougall.
International Harvester Company, Ltd.
Ontario Experimental Union.
Canadian Seed Growers, G. H. Clark.

Class Representatives

Class 1874, Thos. H. Mason, Ottawa.
Class 1883, T. D. Raynor, Dept. of Agriculture, Ottawa.
Class 1884, Alex E. Wark, Wyoming.
Class 1887, E. G. McCallum, Grimsby.
Class 1888, Dr. G. C. Creelman, Beamsville.
Class 1890, Hon. Nelson Monteith.
Class 1891, S. R. Curzon, O.A.C.
Class 1892, D. Z. Gibson, Caledonia.
Class 1893, G. E. Day, Guelph.
Class 1894, J. B. Spencer, Dept. of Agriculture, Ottawa.
Class 1895, E. F. White, Cincinnati, Ohio.
Class 1896, A. C. Wilson, Springfield, Ill.
Class 1897, W. P. Gamble, Guelph.
Class 1898, Geo. H. Clark, Ottawa.
Class 1899, John Buchanan, O.A.C.
Class 1900, G. H. Hutton, C.P.R., Calgary.
Class 1902, G. I. Christie, Lafayette, Ind.
Class 1903, L. H. Newman, Dominion Experimental Farms, Ottawa.
Class 1904, Prof. Fulmer, O.A.C.
Class 1905, J. B. Hoodless.
Class 1906, A. J. McVannell, Picton.
Class 1907, T. G. Bunting, Macdonald College.
Class 1908, E. S. Archibald, Director of Experimental Farms.
Class 1909, Alex McLaren, O.A.C.
Class 1910, C. M. Learmouth.
Class 1911, Dean Howes, University of Alberta.
Class 1912, W. H. Wright, Alberton.
Class 1913, Dr. E. G. Hood, Dept. of Agriculture, Ottawa.
Class 1914, C. F. Neelands, Supt. of Ontario Reformatory.
Class 1915, James Neilson, Exp. Station, Vineland.
Class 1917, O. McConkey.
Class 1918, F. L. Ferguson, O.A.C.
Class 1919, Cecil Tice, Dept. of Agriculture, Victoria, B.C.
Class 1922, Miss Kate Graham, M.A.
Class 1923, J. Andrews, London.

Alumni.—Provision was made at the college for registration of all visiting alumni and alumnae, and the names of 482 ex-students were enrolled. Four men were present from the 1874 class.

As a part of the jubilee celebration, a brief history of the college was prepared by Dr. O. J. Stevenson, Professor of English.

The "Half Century of the O.A.C." begins and concludes with the words: "Let us look down the vision of the years through which the Ontario Agricultural College has come from small beginnings to its present fine proportions. Let us glimpse some of the scenes which have marked its useful history, recall its struggles, and meet the men who have personified its activities and who to-day seek to carry on its traditions.

. . . . . .

"Thus has the story unfolded, year by year, decade by decade, until half a century has rolled by. Thus have men and women served their day and generation. And now in looking back over these fifty years, with their labours, their disappointments, their achievements, it will be seen that it is a two-fold story which is recorded. It is the story of a school—with all the human factors which that implies. A school where minds are trained, where ambitions are kindled, where life-enduring associations are formed! As a school, 25,000 have come under its influence by taking long or short courses. Of these 5,000 have taken the regular courses in agriculture and 5,000 the regular courses in home economics, and the balance short courses. Among its graduates and undergraduates are those who are filling high positions in state, in educational institutions, in many responsible capacities, as well as taking a leading part in the farms of the Province. But it has been more than a school. It has sought to serve those unable to attend its courses, and its influence has gone far and wide to help the man on the farm to attain the ideal of better farming and a finer rural life. In a word the O.A.C. has, in its fifty years now completed, been slowly but steadily building up a tradition which can only be fittingly honoured by fifty more years of even greater service and usefulness.

Work of the College Departments

Investigation.—The investigational work of the college may be divided into two: the working out of emergency problems, and original investigation or research.

Among the emergencies may be mentioned the examing of several hundred diseased specimens of animals and plants; of dairy products, preserves, soils, and silage; of eighty-five samples of farm well water, seventy of which were condemned for pollution; and tests of a widely advertised crop-improver; these were made by the Department of Bacteriology.

The Department of Chemistry made tests of preservatives and adulterants of dairy products; of neutralizers, milling and baking tests; and examinations of insecticides and fungicides submitted.

The Botany Department mentions and describes five new plant diseases that have appeared in Ontario; and reports investigations into the causes and means of control of root rot of canning peas; and experiments for the prevention of black scurf of potatoes.

In entomology the most important emergency is the European corn borer. The burial of stubble, stalks, and other debris likely to contain the borer is recommended as an effective means of control.

Little if any of the experimental work done at the college belongs to "pure research." Most of the undertakings are suggested by some practical problem or more or less pressing need.

In experimental undertakings the Field Husbandry Department reports that the new winter wheat, O.A.C. No. 104, has proved to be the most popular

variety in co-operative experiments, with the highest yield per acre of five tested varieties in six out of seven years.

The Animal Husbandry Department reports the completion of a steer-feeding experiment and the beginning of a new one. Experiments are being continued to determine maintenance costs of breeding stock; and the cost of winter production of milk.

That sweet clover pasture has no injurious effects on milk used in butter-making or in cheesemaking is reported by the Dairy Department. Pasteurizing of milk is recommended for the market milk trade, not only for healthfulness but for keeping qualities. The use of powdered and condensed milk is recommended to the bakers.

Apiary inspection, particularly for the control of foul brood has been continued in the field, and experimental work in bacteriology and apiculture has co-ordinated with inspection. Observation and selection of fruit seedlings have been continued in horticulture. Some promising strains are emerging. Variety tests of vegetables—celery, cabbage, head lettuce, onions and tomatoes—have been transferred to the Ridgetown experimental farm under more favourable conditions of soil and climate than can be found at Guelph.

The Poultry Department is continuing careful observation and experiment in the breeding, feeding, and rearing of fowls, having regard especially to the prevention of disease and to securing vigor and constitution.

The Department of Agricultural Economics reports nine different lines of investigation undertaken on behalf of the farming industry. Some of these are emergency problems, and some are more deliberate undertakings. Among these investigations are: Inquiry into express rates for fruit and live stock; the fluid milk trade; marketing of fruit and of live stock; cost of creamery operation.

Problems in plant diseases, especially in the Essex Peninsula have been investigated by the Department of Botany. In chemistry, experimental work in soil reclamation has been continued at Simcoe and at Welland. In physics, experiments have been conducted to determine the resistance of "lightning rod grounds," and some advance made in testing out proposed improvements in farm plumbing.

Extension.—To make effective in the farmer's practice all the results of these investigations, the farmer must be reached, and convinced, and helped to translate the scientific formula into plain practice. This is extension work, and constitutes the third function of a college that is performing its full duty to its constituency and to the public.

The extension activities of the college are widening rapidly. More than ever before, the men on the college staff are going out over the Province to meet the farmers, to study their conditions and their problems, to convey to them the special knowledge which it is the business of the college to collect; and in turn the college staff are enabled by these visits to keep their teaching and their investigations in tune with the farmer's needs.

The director of extension has been a very busy man. Extension work involving particular subject-matter is still directed within the department in which that subject matter is taught at the college. But certain important general work, such as advertising, preparing exhibits for fairs and exhibitions, writing press bulletins, and operating the package library, is recognized as belonging to the Extension Department.

Definite recognition of opportunities for extension has led to the appointment of extension lecturers in a few of the departments. In poultry, two men

are employed most of their time in extension. Among other things which the Poultry Department has done, may be mentioned 512 culling demonstrations, at which 64,000 birds were handled. Of these 21,000 were judged as culls.

The distribution of high-class, pure-bred live stock by the Animal Husbandry Department is one of the most valuable forms of extension work the college can undertake. Nine beef cattle, twenty-one dairy cattle, fifty-nine sheep, and ninety hogs were sold and dispersed on October 30th. Besides, numbers of private sales were effected during the year.

Similar services are given by the Poultry Department in distributing bred-to-lay poultry stock, and by the Field Husbandry Department in the distribution, chiefly through the Experimental Union, of large quantities of seeds representing the best known strains of field crops.

An extension specialist has been added to the staff in horticulture, to work especially in the interests of vegetable growers.

Co-operative marketing on a commodity basis has been promoted by the Department of Agricultural Economics. Aid has been given in forming co-operative associations among apple growers, turnip growers, and cheese producers.

The Professor of Apiculture, as Provincial Apiarist, has given valuable aid to the bee-keepers both in production and in marketing.

The Professor of Entomology, as Provincial Entomologist, has been very active in promoting a campaign for the control of the corn-borer. The same official has given personal attention to the spraying of orchards, in order to raise orchard practice to the highest possible level and to insure the best possible results.

From the Department of Bacteriology, several visits were made to dairies and factories reporting trouble.

In drainage, the established work in surveying farm lands and preparing drainage plans has been continued.

Besides this brief report of extension work by departments, mention should be made of numerous meetings and conventions attended, teaching short courses, both at the college and in numerous outside centres, judging at fairs and exhibitions, and answering the voluminous correspondence that now pours in to every department of the college.

COLLEGE ATTENDANCE

1923-24

The following are the figures in each course held throughout the year:

(Figures for general courses include students of winter term and new students of fall term.)

General Course	327	
Specialists in General Course Work	8	
Dairy Courses	153	
Stock and Seed Judging	60	
Poultry Raising	37	
Milling and Baking	21	
Horticulture	54	
Apiculture	50	
Drainage and Drainage Surveying	6	
Farm Power	45	
		761
Domestic Science (at Macdonald Institute)		463
Summer Courses:		
High School Teachers—first year, 12; second year, 15	27	
Public School Teachers—first year, 42; second year, 49	91	
School for Rural Leadership	97	
		215
Total		1,439

Analysis of College Roll (General Course), 1921

From Ontario

Algoma	2	Kent	3	Prescott	1
Brant	14	Lambton	4	Prince Edward	2
Bruce	6	Lanark	3	Rainy River	..
Carleton	21	Leeds	4	Renfrew	1
Dufferin	2	Lennox and Addington	..	Russell	3
Dundas	1	Lincoln	19	Simcoe	9
Durham	4	Middlesex	13	Stormont	1
Elgin	6	Muskoka	1	Temiskaming	2
Essex	2	Nipissing	1	Thunder Bay	3
Frontenac	1	Northumberland	2	Victoria	1
Glengarry	2	Norfolk	4	Waterloo	5
Grenville	2	Ontario	2	Welland	2
Grey	4	Oxford	9	Wellington	26
Haldimand	5	Parry Sound	3	Wentworth	10
Halton	3	Peel	3	York	39
Hastings	3	Peterboro	5		
Huron	4	Perth	5	Total from Ontario	268

From Other Provinces of the Dominion

Alberta	2	Nova Scotia	7	Saskatchewan	5
British Columbia	13	Quebec	1		
New Brunswick	3	Prince Edward Island	3	Total from other Provinces	36
Manitoba	2				

From Other Countries

Cuba	1	Scotland	1	Ukraine	1
England	13	South Africa	1	U.S.A	2
India	1	Trinidad	1		
Ireland	1	Switzerland	1	Total from other countries	23

Age and Religious Denominations

The limits of age in the General Course, 1924, ranged from 18 years to 40 years. The average age was 22.

Religious denominations of students registered for the fall term were:

Anglican	70	Friends	2	Mennonite	1
Baptist	25	Greek Orthodox	1	Methodist	103
Christadelphian	4	Jewish	1	Presbyterian	96
Congregational	6	Lutheran	2	Roman Catholic	16

Degrees and Diplomas in Agriculture

The following students graduated in 1924 with the degree of Bachelor of Science in Agriculture.

Agricultural Science Option

Ainslie, George, St. Marys.
Edmonds, Douglas M., Simcoe.
Longman, James A., Alma.

Agriculture Option

(Agronomy) Alternative

Brookins, William W., Ottawa.
Keegan, Robert, Guelph.
Kelley, Drew R., River Hebert, N.S.
MacGregor, William G., Tiverton.
Nelson, Jonathan B., Rockwood.
Ostler, John R., Plevna.

(Animal Husbandry) Alternative

Cox, Kenneth, Upper Stewiacke, N.S.
Craig, Frederick C., North Gower.
Gemmell, Ralph G., Whitefish,
Harrison, Thomas R., Beaverton.
Huntsman, Clarence M., Guelph.
Lewis, Samuel E.. Upper Economy, N.S.
Martin, Arthur H. S., Paris.
Moran, Frank, Fort William.
McArthur, Peter MacK., Appin.
Page, Stewart L., Thornhill.
Paterson, George R., Scarboro.
Skinner, Alexander G., Cobourg.
Smith, Herman E., Owen Sound.
Staples, Milton W., Orono.

Apiculture Option

Armstrong, Frederick R., Ottawa.
Cameron, Oliver E., Ottawa.
Ure, Arthur N., Maidstone.

Bacteriology Option

Felker, Stewart R., Stoney Creek.
Wharton, Denis R. A., Freeman.

Botany Option

Hamilton, James M., Mt. Albert.
Lane, George R., Guelph.

Chemistry Option

Brooke, Richard O., Macdonald College, P.Q.
Gilmore, Lloyd E., Guelph.
Parsons, Frank S., Toronto.
Stewart, William J. A., Halifax, N.S.

Dairy Option

Donaldson, William E., Guelph.
MacMillan, John A., Dutton.
Wallace, James C. M., Aurora.

Entomology Option

Ozburn, Reginald H., Guelph.
Smith, Chester W., Toronto.
Wishart, George, Arnprior.

Horticulture Department

Harrison, Kenneth A., Fredericton, N.B.
Holman, Auburn A., Niagara Falls.
Macdonald, Malcolm R., Hamilton Beach.
Robertson, Alan W., St. Catharines.
Sanders, Paul B., Ottawa.
Shoemaker, Clinton A., Ottawa.
Short, Samuel H., Ottawa.
Smith, Thomas McK., Ottawa.
Woodruff, Wilfrid A., St. Davids.

Recipients of Associate Diplomas, 1924

Bradfield A., Dunnville.
Daly, C. F., Port Haney, B.C.
Donald, Arthur E., Thedford.
Emigh, Vernon M., Burgessville.
Fisher, Herbert R., Downsview.
Garrard, E. H., Fruitland.
Graham, Thos. O., Ottawa.
Hoover, O. E., Hagersville.
Howe, N. C., Paisley.
Jennings, Redvers J., Guelph.
Jillard, Allan S. D., Glanford Station.
Lane, Chester H., St. Ann's.
Macdonald, Hugh E., Regina, Sask.
Morrison, J. S., Glanworth.
Morwick, Frank F., Jerseyville.
McConnell, H., Heathcote.
Pallesen, N. D., Calgary, Alta.
Reid, C. G. L., Vancouver, B.C.
Rittenhouse, R. H., Jordon Harbour.
Schneller, W. J., Baden.
Thomas, R., Guelph.
Thompson, George E., Belmont.
Whiteside, George A., Guelph.
Wilkes, Edward, Toronto.

Professional Dairy School Certificates Issued During 1924

Buttermaking

Burt, Chas. E., St. Catharines.
Brant, Jno., Harriston.
Carnochan, P., Welland.
Clark, A. P., Guelph.
Cooper, A., New Hamburg.
Cribb, Thos., Elmira.
Dell, O., Caledonia.
Dill, C. A., Portland, Oregon.
Eades, C., Shawville.
Einwechter, E., Clifford.
Gourlay, L. O., Toronto.
McDonald, J. E., Guelph.
McNeill, W. R., Fredericton, N.B.
McQuiggan, D. L., Halfway, Oregon.
Miller, F., Dashwood.
Powell, C. A., Ottawa.
Stratton, J. L., Toronto.

Cheesemaking

Anderson, R., Carleton Place.
Humphrey, W. L., Ingersoll.
Kaufman, Thos., Tavistock.
Morrison, A., Kintore.

Special Diplomas (For Short Dairy Courses)

Eades, C., Shawville, P.Q.
Sanderson, L. A., Guelph.

Medals, Scholarships and Prizes Awarded, April, 1924

1905 Scholarship

($50 in cash awarded by a committee of '05 graduates at the college to the best "all round" man at the close of his third year)—J. Marshall, West Summerland, B.C.

Governor-General's Silver Medal

(For general proficiency. First and second year work)—G. S. Walley, Ingersoll, Ont.

George Chapman Scholarship

($20 in cash for proficiency in English, Degree Course, first and second years)—G. S. Walley, Ingersoll, Ont.

Second Year Special Essay

($10 in cash)—H. R. Fisher, Russell Farm, Downsview, Ont.

General Proficiency Prize

($10 cash, first and second year work)—G. S. Walley, Ingersoll, Ont.

Farmer's Advocate Scholarship

(General proficiency in Animal Husbandry and Field Husbandry, first and second years, Degree Course)—F. F. Morwick, R.R. No. 1, Jerseyville.

SCHOLARSHIPS OF $20 EACH AWARDED FOR PROFICIENCY IN GROUPS OF SUBJECTS AS OUTLINED IN THE CALENDAR—FIRST YEAR

Associate

Group 1.—C. L. Hodgins, Ettrick, Ont.
Group 2.—W. A. Scott, R.R. No. 1, New Liskeard, Ont.
Group 3.—R. W. Thompson, O.A.C., Guelph, Ont.
Group 4.—E. M. Trenouth, Powasson, Ont.

Degree

Group 1.—J. E. Blaney, Richmond Hill, Ont.
Group 2.—A. H. Stevens, 65 Page St., St. Catharines, Ont.
Group 3.—L. C. Young, Salisbury, N.B.
Group 4.—G. M. Hart, R.R. No. 3, Woodstock, Ont.

Fourth Year

($10 in cash to the student ranking highest in general proficiency and shall obtain first-class honours in his major subjects)—R. H. Ozburn, 460 Broadway E., Vancouver, B.C.

REPORT OF THE LIBRARY

During the year 708 volumes were added to the library, and the following table indicates the number of books added in the various classes:

Agricultural reports	60	Fiction (French)	7
Agriculture	65	Fine Arts	14
Bacteriology	15	Forestry	5
Biography	14	Genetics	3
Botany	13	History	6
Chemical technology	14	Horticulture	25
Chemistry	30	Horticultural reports	18
Dairy	24	Hygiene	14
Description and travel	11	Literature	48
Domestic animals	25	Physics	7
Domestic science	39	Psychology	8
Economics	35	Reference books	54
Education	16	General magazines	60
Entomology	11	Science	15
Ethics and religion	5	Science reports	13
Fiction	16	Zoology	18

The following encyclopedias were replaced on our reference shelves with later editions:

Encyclopedia Americana (30 vol.).
Chambers' Cyclopedia of English Literature (3 vol.).
Garnett & Gosse's English Literature (4 vol.).

We also added

Glazebrook's Dictionary of Applied Physics (5 vol.)
14th Census of the United States (1920).

Volumes of periodicals, bulletins and circulars numbering 242 were bound.

The circulation for the year was 9,729. Books taken out in the various classes were as follows:

General periodicals	595	Agriculture	1,909
Philosophy	87	Fine Arts	178
Religion	55	Literature	963
Sociology	651	History	341
Science	1,542	Fiction	2,681
Useful Arts	635	Biography	92

We wish to take this opportunity of expressing our appreciation of our exchanges, especially those of the U.S. Department of Agriculture, the Experiment Stations of America, Australia, England, Europe, India, Japan, New Zealand, South Africa, and South America.

Package Library

The work of the package library continues to grow. This year we had 942 applications for literature as compared with 728 last year. This literature is sent out to assist rural people in preparing debates and papers, selecting plays, and so forth. It consists largely of clippings and typewritten articles from periodicals and newspapers, bulletins, etc., and is sent out at small cost, the library paying the postage one way. In all 2,442 packages were loaned; the following table classifies the subjects of the packages lent during the year:

Religion and philosophy	287	Fine Arts	370
Social questions and education	954	History	123
Science and useful arts	153	Agriculture	297
Literature	247	Biography	11

The work of the package library has been carried on by the library for the past three years, and judging from the number of inquiries and the letters received, I am sure it is very much appreciated by the rural people. Owing to our being handicapped this year in the matter of library assistance, it was deemed advisable to transfer this work to the Extension Branch, to be carried on under the supervision of Lionel Stevenson, B.S.A., M.S. This change took place in October.

Macdonald Institute

Summary of Attendance in 1924

A.—January to June, completing the College year 1923–1924.

1. Normal Course in Home Economics—two-year course:—
   (*a*) Juniors 9
   (*b*) Seniors 9

2. Associate—two-year course:
   (*a*) Juniors 40
   (*b*) Seniors 36

3. Institutional Management—two-year course:
   (*a*) Juniors 7
   (*b*) Seniors 5

4. Homemaker—one-year course 39

5. Short Course in Home Economics:
   (*a*) Winter 13

6. Optional Course:
   (*a*) Winter 2
   (*b*) Spring 2

7. Student-worker 0

8. Public School Classes 59

B.—September to December, opening the College year 1924–1925.

1. Normal Course in Home Economics—two-year course:
   (*a*) Juniors 13
   (*b*) Seniors 8

2. Associate—two-year course:
   (*a*) Juniors 34
   (*b*) Seniors 40

3. Institutional Management—two-year course:
   (*a*) Juniors 13
   (*b*) Seniors 6

4. Homemaker—one-year course 37

5. Short Course in Home Economics—(Fall) 13

6. Optional Students—(Fall) 4

7. Student Workers 2

8. Public School Classes 55

C.—Students entered in both above lists 57

D.—Unit Course in Household Science, April to May, 1924—Total Enrolment 72

E.—Courses in Dietetics and Therapeutics for Nurses, October, 1924, to March, 1925 12

F.—Total number of students in 1923 408
Total number of students in 1924 473

Report of Loan Collection

Requests

Home Interests	26	Social	14
Nutrition and Food	98	Textiles and Clothing	7
Health	8	Special Letters	8
Household Economics	13	Referred to Massey and other Departments	135
Education	7		
			316

Answered by—946 folders, articles and clippings, 140 books, 18 magazines.

GRADUATES OF MACDONALD INSTITUTE, O.A.C. 1924

Graduates of the Two Year Normal Course in Home Economics (1922-1924)

Wilhelmina Darch, London.
Sara E. Getty, Moosejaw, Sask.
Hazel F. Jackson, Clinton.
H. Frances McIntyre, Carleton Place.
H. Marion McLuhan, Guelph.
Mildred E. Pritchard, Harriston.
Ruth I. Rix, Prince Rupert, B.C.
Jennie M. Treacy, High River, Alta.
Reta E. Williams, Markham.

Graduates of the Two Year Institutional Management Course (1922-1924)

Barbara Alsop, Beaverton.
Harriett M. Farmer, Arnprior.
Eleanor D. Hamilton, Rockwood.
Mrs. Margaret K. Hamilton, Claresholm, Alta.
Mary A. Shepherd, Dunnville.

Graduate of the Two Year Institutional Management Course, having completed six months successful Institutional Management work, is entitled to the Professional Institutional Management Certificate (1915)

Miss Winifred Downey, Weston Golf and Country Club, Weston, Ont.

Graduates of the Two Year Associate Course (1922-1924)

Dorothy Bell, Southampton.
Gertrude E. Brook, Simcoe.
Meriel Colwell, Owen Sound.
Mary D. Conn, Sarnia.
Dorothy Dancey, Goderich.
Beulah V. Day, Guelph.
Gladys A. Eaton, Carlisle.
Mary Ellis, Billing's Bridge.
Emelie B. Fisher, Niagara-on-the-Lake.
M. Wilfreda Fowler, Guelph.
Laura G. Hamilton, Guelph.
Evelyn Hayman, London.
Jean I. Horrell, Midland.
Zetta A. E. Jackson, Clinton.
Margaret E. McBurney, Niagara Falls.
Jennie B. McCartney, Tuxford, Sask.
Helen C. McMullen, Fredericton, N.B.
Marguerite M. Mooney, Grand Coulee, Sask.
Esther A. Munn, Vancouver, B.C.
Mattie I. Newman, St. Catharines.
E. Patricia O'Neill, Ottawa.
Annie M. Potter, Burlington.
Jean F. Robertson, St. Catharines.
Velma Rosettenstein, Transvaal, S.A.
Anna L. Russell, Dartmouth, N.S.
J. Elizabeth Scott, Toronto.
Grace T. Sharpe, Sarnia.
Dorothy E. Smith, Woodstock, N.B.
Catharine Stuart, Glencoe.
Newell Walker, Guelph.
Marguerite J. Van Der Westhuizen, Cape Town, S.A.
Helen M. Wheelock, Orangeville.
Norah K. Williams, Burlington.
Margaret M. Woodbridge, Hamilton.

Graduate of the Associate Course (1921-1923)

Margaret C. H. Scott, Orillia.

Graduates of the One Year Homemaker Course (1923-1924)

Marion Bartlet, Windsor.
Helen P. Boughner, London.
Cassie Brown, Hanover.
Thora Campbell, Thorold.
Edna C. Cleghorn, London.
Frances Conn, Indian Head, Sask.
Pauline M. Dixon, Toronto.
Ruby M. Evans, Hamilton.
V. Wilhelmina Farnsworth, Cannifton.
Catharine H. Gummer, Guelph.
Rachel G. S. Heming, Ancaster.
Olive Holmes, Orangeville.
Muriel M. Lang, Indian Head, Sask.
E. Muriel Langs, Hamilton.
Elsie O. Levy, Hamilton.
Margaret L. McGlashan, Niagara Falls.
Wilamyne McKellar, Kitchener.
Marion M. Nettleton, Penetanguishene.
Helen J. Orr, Stratford.
Edna B. Pratt, Midland.
Helen Southcott, St. Catharines.
Pauline W. Stapells, Toronto.
Muriel Stewart, Beamsville.

Financial Statement, 1924

COLLEGE DEPARTMENT

Expenditure

Salaries and wages	$189,271 80
Servants pay-list	13,276 08
Mechanical supplies	246 60
Library supplies and expenses	2,997 95
Meat, bread, groceries, laundry, engine-room supplies and fuel	84,660 33
Advertising, printing, postage and stationery	5,145 10
Short courses	2,093 28
Temporary assistance	3,999 75
Purchase and maintenance of autos, trucks and tractors, O.A.C.	1,198 54
Student labour	3,429 68
Travelling expenses and extra-lectures	4,052 45
Expenses College judging team	400 00
Scholarships	110 00
Telephone service, rents, etc	1,173 01
Furnishings and repairs	9,080 62
Feed for horses	86 16
Contingencies	1,707 52
Rebate fees to students	1,495 00
Maintenance of gymnasium	740 66
Expenses in connection with the semi-centennial anniversary of the College, vote 163, item 4	2,439 21
Total expenditure	$327,603 74
Less revenue	130,566 56
Net expenditure	$197,037 18

Revenue Statement

Board	$94,401 04
Tuition and laboratory fees	24,246 00
Rent of rooms	1,620 65
Rent of houses	7,162 50
Rent of post-office boxes	40 00
Supplemental examinations	404 00
Fines, breakages, etc	2,463 74
Sundries	228 63
Total revenue	$130,566 56

Student Labour

November, 1923, to October, 1924

Total per Month		*To different Departments*	
November and December	$465 38	Mechanical Dept	$41 13
January	197 25	Library Dept	60 30
February	92 90	College	869 76
March	392 19	Gymnasium	9 54
April	223 03	Bacteriology	36 65
May	180 50	Chemical	37 96
June and July	450 01	Farm Dept	268 49
August	544 60	Experimental Dept	1,471 57
September	521 85	Poultry Dept	98 91
October	361 97	Horticulture Dept	489 56
		Apiculture Dept	45 81
Total	$3,429 68	Total	$3,429 68

FORESTRY

Expenditure

Contingencies	$952 04

BACTERIOLOGY DEPARTMENT

Expenditure

Stenographer	$850 00
Janitor	950 00
Supplies and expenses	2,899 02
Total expenditure	$4,699 02
Less revenue	3,165 25
Net expenditure	$1,533 77

Revenue Statement

Sale of cultures, as per statements rendered monthly	$3,165 25

BOTANY DEPARTMENT

Expenditure

Stenographer	$720 00
Janitor	950 00
Travelling and other expenses in connection with plant diseases	687 95
Supplies and expenses	1,000 75
Total expenditure	$3,358 70

CHEMISTRY DEPARTMENT

Expenditure

Stenographer	$770 00
Janitor	450 00
Supplies and expenses	4,772 68
Soil survey and demonstration work, Vote 222, Item 20	6,999 97
Total expenditure	$12,992 65
Less revenue	1,279 88
Net expenditure	$11,712 77

Revenue Statement

Chemical analyses, as per statements rendered monthly	$1,279 88

ENTOMOLOGY DEPARTMENT

Expenditure

Supplies and expenses	$2,236 95
Stenographer	650 00
Corn-borer investigation	1,664 85
Total expenditure	$4,551 80

ENGLISH DEPARTMENT

Expenditure

Supplies and expenses	$463 51
Secretary for loan library and stenographer	840 00
Total expenditure	$1,303 51

MANUAL TRAINING DEPARTMENT

Expenditure

Janitor	$950 00
Supplies and expenses	899 28
Total expenditure	$1,849 28

PHYSICS DEPARTMENT

Expenditure

Stenographer	$720 00
Salaries and expenses in drainage work	10,910 99
Supplies and expenses	1,796 60
Total expenditure	$13,427 59

FARM ECONOMICS DEPARTMENT

Expenditure

Farm surveys, services, travelling and other expenses, and equipment, purchase and maintenance of automobiles, and contingency	$26,296 09

MACDONALD INSTITUTE AND HALL

Expenditure

Salaries and wages	$24,405 17
Servants pay-list	1,877 26
Meat, bread, groceries, laundry, engine-room supplies, fuel, furnishings, and labour on Macdonald grounds	24,054 88
Maintenance of laboratories in institute	2,099 29
Library and stationery	741 85
Contingencies	481 32
Total expenditure	$53,659 77

FARM DEPARTMENT

Expenditure

Permanent improvements	$903 09
Wages of men and foreman	15,725 37
Purchase and maintenance of live stock	14,389 51
Farm maintenance (including repairs, blacksmithing, binder-twine, seeds, furnishings, fuel, light, advertising, printing, stationery, tools, implements, etc.)	4,491 49
Contingencies	333 75
Stenographer	750 00
Total expenditure	$36,593 21
Less revenue	13,527 33
Net expenditure	$23,065 88

Revenue Statement

Sale of Cattle:—		
17 Bulls at from $25.00 to $200.00	$1,638 00	
8 Cows at from $25.00 to $100.00	345 00	
1 Steer for	45 00	
21 Steers, 21,373 pounds at from 4¾ to 12¼c	1,688 48	
1 Calf for	15 00	
		$3,731 48
Sale of Pigs:—		
43 Boars at from $5.00 to $55.00	$739 00	
77 Sows at from $12.50 to $60.00	2,263 00	
77 Hogs, 16,366 pounds at from $5.20 to $10.15 cwt	1,242 68	
		4,244 68
Sale of Sheep:—		
13 Rams at from $15.00 to $45.00	$299 50	
6 Ewes at $7.50	45 00	
21 Lambs at from $6.00 to $11.00	201 00	
5 Lambs, 540 pounds at from 11½c to 12c	62 55	
		608 05
Sale of Cream:—		
279 quarts at 50c	$139 50	
2,057.95 lbs. butter-fat at from 32 to 46c	720 90	
		860 40
Sale of milk—112,425 lbs. at from $2.40 to $2.80 cwt		3,130 04
Service of animals		294 00

Feed of horses—Hay for 12 horses for 1 year at $30.00 each		$360 00
Sale of 4 tons ensilage at $5.00 ton		20 00
Sale of Roots:—		
100 bushels mangolds at 15c. bushel	$15 00	
50 bushels turnips at 20c. bushel	10 00	
		25 00
Sale of wool—440 lbs. at 29.749c. lb		130 89
Sale of grain—2 bushels oats at 55c		1 10
Sale of 1 old corn-binder for		55 00
Sale of 1 old mare for		45 00
Sale of 4 loads wood at $2.00 load		8 00
Sundries		13 69
Total revenue		$13,527 33

FIELD HUSBANDRY DEPARTMENT

Expenditure

Permanent improvements	$1,880 99
Foreman, teamsters and labourers	14,481 60
Seeds, manure and special fertilizers	913 46
Furnishings, implements, repairs, blacksmithing, etc	977 02
Printing, postage, stationery, contingencies, etc	634 26
Purchase and feed of horse	489 80
Stenographers (three)	2,350 00
Total expenditure	$21,727 13

DAIRY DEPARTMENT

Expenditure

Permanent improvements	$84 70
Wages, including cheesemakers, buttermakers, and bookkeeper, assistant and official tester of dairy cattle	2,484 04
Purchasing, hauling and manufacturing milk into butter and cheese	6,984 96
Furniture, furnishings, repairs, etc., laboratory expenses, gas, chemicals, etc., and contingencies	1,492 78
Fuel and light	3,334 27
Total expenditure	$14,380 75
Less revenue	11,249 31
Net expenditure	$3,131 44

Revenue Statement

Sale of cheese—10,662 lbs. at from 19½c. to 60c		$2,474 44
Sale of butter—10,968½ lbs. at from 15c. to 45c		4,061 93
Sale of Cream:—		
987¼ quarts at from 50c. to 70c	$512 13	
1,460.97 lbs. butter-fat at from 35c. to 50c	668 91	
		1,181 04
Sale of ice-cream—4,383 pints at from 17c. to 30c		979 27
Sale of Milk:—		
11,461½ quarts at from 8c. to 10c	$954 75	
14,965 lbs. at from $2.70 to $2.90 cwt	412 89	
310 lbs. milk-powder at 12c	37 20	
		1,404 84
Sale of skim and buttermilk—328,392 lbs. at from 25c. to 50c. cwt		940 31
Sale of whey-milk—86,275 lbs. at 5c. cwt		43 15
Storage of 500 boxes of butter for season 1923, for		150 00
Sundries		14 33
Total revenue		$11,249 31

DAIRY SCHOOL

Expenditure

Wages of instructors, engineer, janitor, stenographer and bookkeeper	$1,974 46
Cleaning, painting, repairs and contingencies	299 92
Dairy appliances, separators, vats, expenses cheese and butter judges, inspecting factories, etc	698 55
Advertising, printing, stationery, postage, books, papers, etc	145 82
Fuel and light	588 62
Purchase of milk for cheesemaking and cost of hauling milk and cream	5,499 70
Total expenditure	$9,207 07
Less revenue	4,909 20
Net expenditure	$4,297 87

Revenue Statement

Sale of cheese—1,027½ lbs. at from 15c. to 60c		$291 82
Sale of butter—5,103½ lbs. at from 15c. to 45c		2,100 46
Sale of cream—259¾ quarts at from 50c. to 70c		138 00
Sale of ice-cream—1,823 pints at from 17c. to 30c		426 97
Sale of Milk:—		
3,934½ quarts at from 8c. to 10c	$336 95	
22,370 lbs. at $2.80 cwt	626 36	
100 lbs. milk-powder at 12c	12 00	
		975 31
Sale of skim and buttermilk—148,216 lbs. at 30c. cwt		444 65
Sale of whey-milk—72,540 lbs. at 5c. cwt		36 27
Condensing milk—20,000 lbs. at 37½c. cwt		75 00
Sundries		24 72
Fees		396 00
Total revenue		$4,909 20

POULTRY DEPARTMENT

Expenditure

Wages	$6,039 52
Furnishings and repairs	2,989 04
Permanent improvements	297 22
Purchase of stock	399 80
Fuel, light and contingencies	2,391 53
Experiments with incubator, fattening and feeds	9,271 58
Poultry extension work, including purchase and maintenance of automobiles	6,937 12
Feed of horses	60 00
Stenographer	870 76
Total expenditure	$29,256 57
Less revenue	14,547 94
Net expenditure	$14,708 63

Revenue Statement

Sale of Live Poultry:—		
1,888 live birds for	$5,016 50	
370 day-old chicks at 10c	37 00	
		$5,053 50
Sale of dressed poultry—7,450 lbs. at from 5½c. to 62½c		1,887 56
Sale of Eggs for Hatching:—		
477½ setts at from $1.00 to $2.00	$905 50	
16,030 eggs at from 6c. to 70c. each	1,618 49	
		2,523 99
Sale of eggs for domestic use—12,599 dozen at from 20c. to 75c		5,063 14
Sundries		19 75
Total revenue		$14,547 94

HORTICULTURE DEPARTMENT

Expenditure

Permanent improvements	$1,192 50
Foreman, firemen, teamsters and labourers	17,370 97
Trees, plants, seeds, bulbs, fertilizers, implements, tools, furnishings, repairs and contingencies	4,484 68
Fuel and light	2,242 01
Feed and horses	581 20
Stenographers (two)	900 00
Extension work in vegetable growing, Vote 222, Item 19	3,160 48
Total expenditure	$29,931 84
Less revenue	5,581 66
Net expenditure	$24,350 18

Revenue Statement

Sale of fruits, vegetables, plants, flowers, etc., as per statements rendered monthly	$5,581 66

APICULTURE DEPARTMENT

To provide for equipment, maintenance and wages	$1,599 73
Stenographers (two)	1,450 00
Queen rearing apiary maintenance	1,999 88
To provide for inspection of apiaries, travelling expenses and other expenses in connection with apiculture work	8,998 14
Total expenditure	$14,047 75
Less revenue	1,021 55
Net expenditure	$13,026 20

Revenue Statement

Sale of honey, bees, etc., as per itemized statements rendered monthly	$1,021 55

SUMMARY

	Expenditure	*Revenue*	*Net Expenditure*
College	$327,603 74	$130,566 56	$197,037 18
Forestry	952 04	.....	952 04
Bacteriology	4,699 02	3,165 25	1,533 77
Botany	3,358 70	.....	3,358 70
Chemistry	12,992 65	1,279 88	11,712 77
Entomology	4,551 80	.....	4,551 80
English	1,303 51	.....	1,303 51
Manual Training	1,849 28	.....	1,849 28
Physics	13,427 59	.....	13,427 59
Farm Economics	26,296 09	.....	26,296 09
Macdonald Institute and Hall	53,659 77	.....	53,659 77
Farm	36,593 21	13,527 33	23,065 88
Field Husbandry	21,727 13	.....	21,727 13
Dairy	14,380 75	11,249 31	3,131 44
Dairy School	9,207 07	4,909 20	4,297 87
Poultry	29,256 57	14,547 94	14,708 63
Horticulture	29,931 84	5,581 66	24,350 18
Apiculture	14,047 75	1,021 55	13,026 20
	$605,838 51	$185,848 68	$419,989 83

Respectfully submitted,

J. B. Reynolds,
President.

Appendix

"THE JUBILEE"

(An address: June 9th, 1924, at the opening of the semi-centennial celebration, delivered by President Reynolds.)

The end of fifty years of service for the Ontario Agricultural College is an occasion that should give pause to her friends, her counsellors, her officers and administrators. It is an occasion that encourages looking backward. It is a fitting time to do honour to those men, of various sorts and capacities, who have given of their skill, and knowledge, their intelligence and devotedness, to help in the building of such a worthy edifice. It is a fitting time to recall the successive stages of growth through which the college has attained her present stature. It is proper to consider what have been the material and human results of these fifty years of increasing activity and influence. It is proper also to consider failures and shortcomings, in what respects she has fallen short of the best in the use of opportunity and responsibility; and it is proper to lay broad and deep and hopeful plans that shall guide her to still nobler performances and to still greater heights of success.

Of the host of men who have given their talents and devotion to the making of this college, mention can be made only of those who, either by priority or length of service, started the college on her career of wide influence and power. Thus we gladly give tribute to William Brown and Thomas Shaw, pioneers in farm management and in the live stock department; to Dr. Robertson, who established the dairy department; to Dr. Bryce, C. C. James, Panton and Shuttleworth, whose work in the physical and biological sciences made possible the present extensive departments; to Jarvis, for his early work in poultry; to Hutt, in horticulture; to Rennie, who left behind him a tradition of good farming; to Geo. Day, who devoted a keen intelligence to the important problems of live stock breeding; and to Miss Mary Urie Watson, who first, and who for sixteen years directed the affairs of Macdonald Institute.

These are the twelve apostles, and though there may have been a doubting Thomas among them, and possibly a wavering Peter, there never was a Judas. Public service and not private gain was their lode-star, and courage and faith their compass. With such as these to build, the structure could not fail to reach deep down to the rock of sound truth, and rise high in strength and beauty, having useful and unselfish service for the fabric of her walls, and a noble company of men and women pouring forth from her doors.

There may have been many in the apostolic succession, likewise deserving of mention and of praise. And of the men who are their present successors, who are carrying on the work so well started by the founders, the men who are my friends and colleagues in executing and administering the work of the college, their good sense would forbid that I should speak in the terms that their services deserve. I can say, however, that in devotion to the cause of a better agriculture, of better homes, and a better citizenship in rural Ontario, the worthy apostles of a past day are succeeded by no less worthy missionaries in the present.

For forty-six out of the fifty years in the history of this college, its affairs were guided by three men as chief directors.

Mr. Johnston was president from 1874 to 1879. Those were the days of small things, but Mr. Johnston saw with remarkable clearness the direction in which it actually has developed. He dreamed of large classes of students, of scientific laboratories endowed with means of investigation, of a wide extension service, of farmers coming to the college in confidence that their problems and perplexities would be understood and settled. What he did was to establish discipline in the college, to lay down an educational policy, to justify to the public mind the idea of a college of agriculture, and to work so hard at such varied duties as resident master, teacher, leader of the Bible class, bursar and president, that five years of such strenuous labour and crowding anxieties probably shortened his life.

His successor was Mr. James Mills, then in 1879 principal of the Brantford Collegiate Institute. Mr. Mills, afterwards made Dr. Mills by his Alma Mater, gave brilliant service to the college for a full quarter century. In his time, and largely through his foresight and energy, the college established those intimate and confidential relations with its public—the farmers—without which all other efforts would have been comparatively unproductive. Through the travelling dairies, the farmers' institutes, and the summer excursions, the farmers and many who were not farmers became aware of the existence of the college, gained an intelligent idea of its functions, and acquired the habit of turning to the college for technical advice and assistance. In this quarter-century, the course of study was lengthened, first in 1888 to three years, and again in 1902 to four years. In 1888, through affiliation with the University of Toronto, the degree of Bachelor of Science in Agriculture was instituted. In this quarter-century also, a building programme was started, which has continued with little interruption to the present time. The buildings erected during that time are too numerous to mention, but chief among them are the Massey Hall, the gift of the Massey Estate, and Macdonald Hall and Institute, donated by the late Sir William Macdonald.

In the college organization itself, important departments were added: horticulture, dairy husbandry, poultry husbandry, chemistry, botany, bacteriology, entomology and physics. By the addition of the allied natural sciences, agriculture was admitted to be more than an empirical knowledge of certain approved practices established by farming experience. The science as well as the intelligent practice of agriculture was seen to be related to natural laws and subject to exact experimentation in the laboratory.

These advances, made under the intelligent leadership of Dr. Mills, represent the normal and natural growth of an institution responding to public understanding, to public sympathy, and to the growing needs of a rapidly-expanding agriculture in the Province.

According to a letter received June 7th from his brother, Mr. J. S. Mills of Toronto, Dr. Mills will be eighty-four years of age in November next. We had hoped to be honoured with his presence here this evening, but illness prevents his attendance.

The personal qualities of Dr. Mills are eminently suited to the place he filled during the developing period of the college. He has patience and perseverance in a high degree. Courage he has, tempered with good judgment and discretion. His collegiate training and experience prompted him to frame a course of study, not merely practical, but broadly educative, and he resisted whatever tendency there might be in the college toward teaching the so-called

practical subjects exclusively. He has that instinct for accuracy and minute detail so essential in a builder. And beyond all, his cheerfulness, his infectious laugh, his unfailing humour, have made him beloved.

His successor, Dr. George Creelman, directed the affairs of the college for sixteen years with brilliant success. The activities and interests that had been set going he advanced to still wider accomplishments.

The college under his direction continued to grow physically, and to enlarge its usefulness and popularity. When the decline of the summer excursions threatened to break contact with the farming constituency, research and extension workers from the college visited the farmers at home and gave particular direction and assistance where and when it was most urgently needed. These sixteen years saw the decline of the Farmers' Institutes and the establishment of the policy of county agricultural representatives. Farmers' meetings, frequently in the early days attended only by older men, became farmers' courses, and domestic science courses, attended steadily for a week or a month by the young men and women of the respective communities. In all this change and progress, whether originating at the college or at the central department at Toronto, Dr. Creelman was an organizing and directing force. The popularity and prestige of the college greatly extended under his regime. He carried the college, the story of its growth, and its aims and achievements to the towns and cities of Canada and to other lands. His social qualities insured a wide acquaintance and his well-known talent as a public speaker gave him entrance to societies and clubs, whose members heard for the first time how important is agriculture in the economic life of the nation, what varied knowledge and superior intelligence are required for successful farming, and how large a contribution to the public welfare was being made by the agricultural college.

We welcome Dr. Creelman back to the college for this function, and wish him health and long life and prosperity and many friends.

The college welcomes back these officers and teachers of a former day, who by their presence during this week show their continual affection and loyalty. And her sons and daughters who come from far—what can be said adequately to acknowledge their remembrance of this momentous occasion in the life of their Alma Mater? This at least may be said: the worth of the Ontario Agricultural College, her contribution to the public welfare, may be summed up in material terms, may be estimated in dollars and cents to convince those who demand such measures of success. But such material measurements cannot be applied to estimate the highest kind of contribution which a college makes to the life of a people. If you wish to see the evidence of material success, look about you, and see on the farms of Ontario the benefits the college has conferred upon agriculture. If you wish to see the evidences of public approval, look about you, and see on these grounds the noble piles of buildings that stand as monumental tokens of that approval. If you wish to see the evidences of the highest kind of success to which a college can attain, her influence in molding character and citizenship, look about you, and see the men and women, alumni and alumnae of the Agricultural College and Macdonald Institute, who shall assemble here this week to do honour to their Alma Mater. And fully to estimate that influence, you must look beyond those present, and view that numerous host whose hearts are with us now, but who cannot be with us in person. You must take the wings of the morning and fly to the uttermost parts of the earth, to all the provinces of this Dominion, to the republic to the south, to the West Indies, to the republics of South America, to South Africa and Liberia, China

and India, and there you may see the men and women from this college in positions of trust and responsibility and large and beneficient influence. Upon this sort of evidence, the good name of the college securely rests.

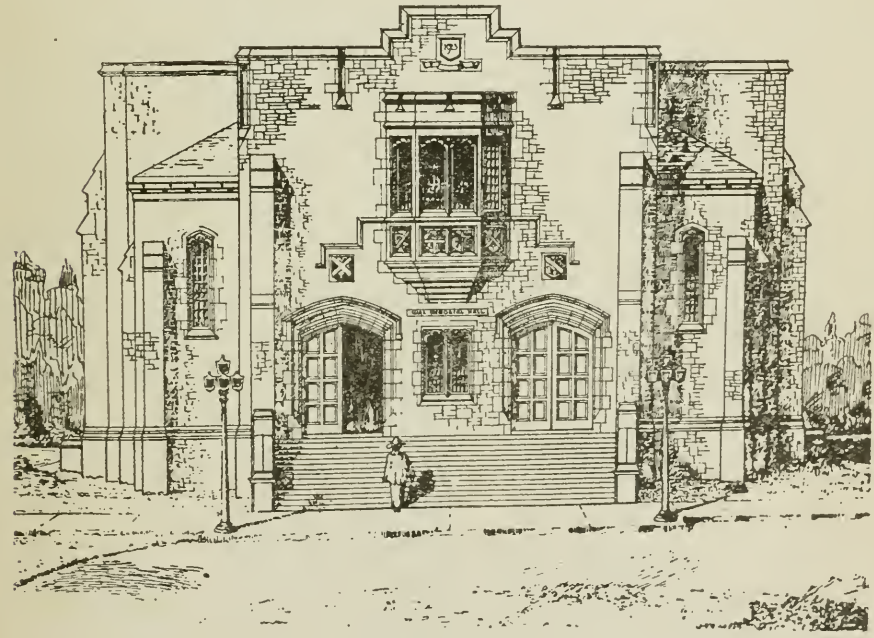
With this brief and inadequate review of the half century, I must rest content. It remains to mention the second purpose for which we have assembled here.

The greatest single contribution of this college to the well-being of the nation and of the world, certainly the greatest spiritual contribution, was the part taken by her graduates in war. Nearly eight hundred men enlisted, of whom 110 lost their lives. Nearly five years ago, a project was started to erect some fitting memorial, both of those who fell and of those who returned, to stand as a lasting testimony to our gratitude for their heroic services. After many disappointments and delays, the war memorial stands completed, and it is generally agreed that no finer or nobler monument can be found, in beauty of design, in excellence of execution, or in earnestness of purpose, than the War Memorial Hall which will be dedicated here to-morrow.

We cannot sufficiently express appreciation of all those who have contributed to this final success. To former governments for the first authorization of the plans, and first contribution to the funds, and to the present government for carrying on these plans, and supplying the necessary means for a building adequate and complete in every particular to serve the purpose for which it is intended—our cordial thanks are due, and are hereby most gratefully expressed.

To the many generous private contributors, friends, supporters, and sympathizers among the students, the alumni, and the public at large, who have contributed altogether the sum of $45,000, acknowledgement is hereby made. Late in the autumn of 1921, in an enthusiastic co-operative effort that lasted long enough to accomplish its object, the students of the college by their united labours made the excavation for the site of the building, and saved an expenditure of at least one thousand dollars. To the provincial architect and his staff, we give thanks for a beautiful design and for a faithful execution of that design. To the contractors, to the building inspector, to the men who laboured in heat and cold, in storm and sunshine, and lately by night and day to make possible this structure of enduring beauty, and to turn it over completed for this particular occasion, we are exceedingly grateful. These acknowledgements would not be complete without grateful mention of the artists who superintended the stage equipment, and designed and executed the service roll, the memorial window, and the memorial tablet. To these and all others who in any way have helped on the cause, the college hereby expresses its sense of indebtedness. It gives pleasure to make mention of the cordial relations that have always existed between the citizens of Guelph and the college. For this occasion, the secretary of the Chamber of Commerce has asked what the Chamber can do to assist in making the occasion notable. The military officers and the various units belonging to the city will lend valuable aid in giving due solemnity to the memorial proceedings. For these new proofs of the kindly regard felt toward the college by the citizens of Guelph, the college is profoundly thankful. And, in addition, the Semi-Centennial issue on Saturday, June 7th, of the Guelph *Mercury* deserves the highest praise. Mr. Innes McIntosh, the editor and proprietor of the *Mercury*, himself an alumnus of the college, has produced in this issue an artistic, a comprehensive, and a sympathetic review of the college from its inception to the present day. The view of the college as it now stands, produced on the front page is a copy of an excellent drawing made by Mr. Dangerfield. Mr. McIntosh is to be heartily complimented for a production so excellent and so timely.

And now without seeming to anticipate the memorial services of to-morrow, may we not think of this whole gathering as a memorial, as our recognition of the bravery of those who died that we might live. May we not here and now testify that while their bodies are buried in peace for us their name liveth forevermore. And should we not make this a solemn occasion for a dedication of ourselves to some purposes worthy of the cause for which these men died. The noble words of Lincoln are as fitting here as for the occasion on which they were uttered: "It is rather for us here to be dedicated to the great task remaining before us, that from these honoured dead we take increased devotion to that cause for which they gave the last full measure of devotion—that we here highly resolve that these dead shall not have died in vain—that this nation, under God, shall have a new birth of freedom, and that government of the people, by the people, and for the people shall not perish from the earth."



Memorial Hall

NAMES OF GRADUATES AND UNDER-GRADUATES OF THIS COLLEGE WHO FELL IN THE WAR 1914-1918, WHICH ARE NOW INSCRIBED ON BRONZE TABLET IN MEMORIAL HALL.

Ackers, C. J., '09
Agar, Capt. E. Z., '13
Aldwinckle, Lieut. E., '06
Bagsley, H. E., '13
Barrett, H. H. G., '13
Bews, R., '15
Bowie, W. E. P., '08
Bradley, C. A., '13
Campbell, Lieut. J. W. R., M.C., '13
Chaffey, W. F., '09
Chambers, R. J., '11
Christie, H. F., D.C.M., '13
Clark, R. H., '98
Clemens, L. P., '12
Coulter, W. H., '15
Cunningham, Lieut. H. S., '15
Davies, Lieut. E. L., '09
Delamore, A. J., '14
Donaldson, H. W. W., '84
Dow, A. R., '11
Duff, Geo. C., '09
Duffy, C., '05
Fairclough, E. R., '13
Fairweather, A. W., '99
Fitzgerald, E. J., '12
Forman, C. T., '13
Gardiner, Lieut. Chas., '04
Gibson, Chas. G., '11
Goodall, G. M., '13
Grange, Lieut. J. B., '09
Greenshields, Capt. Jas. M., '03
Gregory, P. S., '13
Hales, Capt. J. P., '10
Hamilton, J. H., '13
Hammond, Lieut, H. L., '13
Harkness, Lieut. N. J., '15
Harrop, C., '14
Henderson, Lieut. J. F., '14
Henry, Capt. L. B., '09
Herder, Lieut. H. C., '11
Hextall, Lieut. L. J., '09
Hiddleston, J. S., '09
Hogarth, J. G., '13
Horan, B. K., '12
Ingram, F. H., '05
Jensen, Lieut. E., '12
Kay, Lieut. H. R., '09
Kedey, W. M., '10
Kennedy, S., '06
Kilgour, Lieut. A. W., '11
Kinnear, A. J., '08
King, Lieut. V., '07
Kirkley, Lieut. F. R., M.C., '11
Landels, Lieut, B. H., '09
Lane, A. C., '13
Lavis, G. E., '14
Lee, Capt. G. D., '12
Leigh, Capt. A. Austin, '11
Lindesay, H. H., '09
Loghrin, Major S., '94

McEwen, Major C. F., D.S.O., '05
McIlquham, Lieut. J. M., '08
McLaren, Lieut. Q., '11
McLennan, D. M., '10
McNaughton, H. D., '11
Macklin, Lieut. J. M., '14
Magee, W. G., '13
Matheson, Lieut. A. P., '14
Maynard, D. S., '16
Montizambert, T., '07
Moses, Lieut. E. N., '13
Mucklow, Lieut. G., '11
Neilson, Lieut. M. A., '13
Patch, A. M., '04
Pawley, Lieut. N. H., M.C., '09
Periera, Capt. A. O., '13
Porter, Lieut. M., '11
Powys, B. C., '13
Pratt, Capt. W. J., '12
Raynor, G. T., '11
Read, D. G., '14
Robinson, G. H., '01
Rowley, Lieut. E. G., '13
Rumsby, Lieut. R. W., '11
Scott, G. H., '16
Sharman, Lieut. W. W., '05
Shipton, J. C., '13
Singleton, W., D.C.M., '06
Skene, H. A., '08
Smith, Lieut. M. T., '11
Stairs, Lieut. K., '09
Steckley, Lieut. H. B., '13
Stokes, Lieut. C., '13
Swinnerton, Lieut. A. R., '11
Timpany, B. J., '10
Walker, C. T., '08
Walsh, Lieut. F. W., '11
Waterhouse, F., '10
Waters, M. S., '13
Watt, Lieut. R. S., '13
Weber, E. W., '17
Weir, Capt. D., '02
Weir, Lieut. J., '99
Westra, H., '13
Wilson, Lieut. N. I., '11
Wilson, S. C., '13
Winslow, J. H., '10
Wright, C. H., '07
Yule, R. G., '12

To you from failing hands we throw
The torch; be yours to hold it high.
If ye break faith with us who die,
We shall not sleep, though poppies grow
In Flanders fields.

From the immortal poem of Lieut.-Col. John McCrae, M.D., who served as Dean of Residence at the Ontario Agricultural College in 1892-3, and as Instructor in Zoology in 1898.

Ontario Department of Agriculture

FORTY-SIXTH ANNUAL REPORT

OF THE

AGRICULTURAL

AND

EXPERIMENTAL UNION

1924

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO
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1925

Ontario Agricultural and Experimental Union

OFFICERS FOR 1924-1925

President.....Wm. Elliott, M.P., Galt, Ont.
Vice-President.....W. H. Porter, London, Ont.
Secretary.....C. A. Zavitz, Agricultural College, Guelph.
Assistant Secretary.....W. J. Squirrell, Agricultural College, Guelph.
Treasurer.....A. W. Mason, Agricultural College, Guelph.
Directors.....Pres. J. B. Reynolds, J. Baker, F. E. Webster, Leonard Hankinson, A. Davey.
Auditors.....R. C. Moffatt and A. M. Porter.

COMMITTEES ON CO-OPERATIVE EXPERIMENTS 1925

Field Husbandry.....C. A. Zavitz (Director), W. J. Squirrell, J. Buchanan, A. W. Mason, A. E. Whiteside.
Agricultural Botany.....J. E. Howitt (Director), T. G. Raynor, Herbert Groh, W. J. Lennox.
Forestry.....E. J. Zavitz (Director), A. H. Tomlinson, H. A. Dorrance.
Agricultural Chemistry.....R. Harcourt (Director), S. Waterman, A. H. MacLennan, F. W. Presant.
Apiculture.....F. E. Millen (Director), G. L. Jarvis, E. J. Dyce.
Farm Literature.....O. J. Stevenson (Director), W. C. Blackwood, R. E. Balch.
Agricultural Physics.....W. C. Blackwood (Director), R. R. Graham, R. C. Moffatt, F. L. Ferguson.
Bacteriology.....D. H. Jones (Director), T. H. Lund, A. Davey.
Animal Husbandry.....Wade Toole (Director), J. Steckley, R. G. Knox, G. E. Raithby.
Horticulture.....A. H. MacLennan (Director), A. H. Tomlinson, J. E. Howitt, R. R. Graham.

TREASURER'S REPORT, 1924

Receipts		Expenditures	
Balance from 1923	$937 37	Agricultural Experiments	$2,362 18
Government Grant	2,750 00	Agricultural Chemistry	207 11
Membership Fees, 221 at 50c	110 50	Agricultural Physics	135 06
Interest	50 36	Agricultural Botany	47 25
		Expenses, Annual Meeting, 1924	67 50
		Meeting of Executive	25 55
		Total	$2,844 65
		Balance on hand	1,003 58
	$3,848 23		$3,848 23

Ontario Agricultural and Experimental Union

ANNUAL MEETING

Instead of holding the annual meeting of the Ontario Agricultural and Experimental Union in December, 1923, it was held in June, 1924. This permitted the celebration of the forty-fifth anniversary of the Experimental Union to be held in the same week as the Semi-centennial Celebration of the founding of the Ontario Agricultural College. This arrangement also permitted an earlier publication of the results of the co-operative experiments so that the farmers would have them as long as possible before spring seeding of 1924. These arrangements worked out admirably.

PRESIDENT'S ADDRESS

JACK BAKER, HAMPTON, ONT.

It was, to say the least, an opportune circumstance that made it advisable to postpone the regular annual meeting of the Ontario Agricultural and Experimental Union to this date, thus celebrating the forty-fifth anniversary of its existence in conjunction with that of the fiftieth of the College. In fact, we feel that a history of the College would not be complete without a reference to the work of the Experimental Union carried on so successfully these many years under the direction of Dr. C. A. Zavitz.

It is true that the season of 1923 was a very discouraging one for the Ontario farmer, both as to crops produced and prices received for what he had to sell, in comparison with what he had to pay for the necessaries and requirements of farm life. However, we hesitate to estimate how much less those returns would have been had it not been for the consistent and effective distribution by the Union of those varieties of grain and published results that have proved most successful through this experimental work.

"Quality in production" should be the slogan of the Ontario farmer to-day, and with this end accomplished, well directed co-operative marketing will complete the required change in agricultural conditions. The Union may well place emphasis on this phase of the work. Education is necessary, and of a practical nature, such as has been given by this Association for the past forty-five years. We have only to witness the general acceptance all over the Province of the best varieties for crop production and methods of combating crop enemies, advocated and distributed by the Experimental Union. It has already led the way in successful co-operative effort.

The Union was organized forty-five years ago, primarily, we presume, for experiments in varieties for crop production. It has grown and expanded to now embrace departments in Field Husbandry, Agricultural Botany, Forestry,

Agricultural Chemistry, Apiculture, Farm Literature, Agricultural Physics, Bacteriology and Animal Husbandry. Valuable information is obtained every year by these different departments, through which every farmer in the Province may be profited by a practical application of some of the results obtained. The field of activity is ever widening and we trust the work of the Union may long continue to function and have the association of our estimable benefactor, Dr. Zavitz, and his co-workers who are so successfully carrying on the work.

We have met under ideal auspices and are confining our meetings to this one business session, foregoing our usual programme of education, to celebrate with the College in the festivities of the occasion. We might, however, suggest to the incoming executive a consideration of the advisability of changing the time of the annual meetings to this ideal time of the year. Also we would recommend to the members an inspection of the Experimental plots and an appeal to Professor Squirrell for any desired information.

Although prospects to date are not too bright, we trust that 1924 will prove a more profitable year for the Ontario farmer and a successful one for the Experimental Union.

Discussion

Wm. Elliott, M.P., Galt, Vice-President.—I think there is much in favour of holding the annual meeting regularly in June rather than in January, as in past years.

On this point there was considerable discussion in which several members took part. It was finally decided to leave the decision of the matter to the incoming executive.

Wm. Elliott, M.P.—I wish to point out that the average grain yields are higher in Ontario than in other provinces, and I think that this is largely due to the use of superior varieties introduced through the Experimental Union.

I also wish to call your attention to the insignificance of salaries paid to crop improvement workers in comparison with the value of the results achieved by the production and distribution of improved varieties.

J. Baker, Hampton.—I suggest the using of more than one variety of oats in the Standing Field Crop Competitions, since in my opinion the Banner variety, which is now being used, is not the best variety for many sections.

Andrew Elliott, Galt.—I have repeatedly observed both in the Maritime Provinces and in Ontario, that the Banner variety has a larger percentage of abortive blossoms than has some of the other good varieties.

Several members said that the O.A.C. No. 72 was much better suited to their districts than was the Banner.

Mr. Raynor explained that the difficulty about using the O.A.C. No. 72 variety for the Field Crop Competitions lay in the fact that not enough registered seed was available.

Professor Squirrell pointed out that in the catalogue of the Canadian Seed Growers' Association, one member alone listed three thousand bushels of this variety.

Replying to a question from Mr. J. W. Widdifield, M.P.P., Mr. Raynor said that the use of two or three good varieties would not cause serious difficulty in the field judging.

It was moved by Mr. J. W. Widdifield, seconded by Mr. R. H. Harding, and carried: "That the Experimental Union memorialize the Ontario Fairs Association, that competitors in the Combined Field Crop and Threshed Grain Competition be allowed to enter the variety of their choice in the competition."

REPORT OF MEETING OF EXECUTIVE REGARDING NEXT ANNUAL MEETING OF EXPERIMENTAL UNION

A meeting of the Executive of the Experimental Union was held at the Canadian National Exhibition, Toronto, at 10.30 a.m., September 3rd, 1924.

Those present at the meeting were, Wm. Elliott, M.P.; Professor W. J. Squirrell, A. W. Mason, President J. B. Reynolds, F. E. Webster, J. Baker, A. Davey, and Dr. C. A. Zavitz. A letter was received, and read, from W. H. Porter, so that all members were present in person or by letter with the exception of L. D. Hankinson.

The question was considered very carefully as to whether it would be best to hold the annual meeting of the Experimental Union, as formerly in January, or to hold the annual meeting in January and a summer session in June, or to do away with the winter meeting, and to hold the annual meeting in June. Mr. Porter in his letter advocated the annual meeting in winter and the field meeting in the summer. After discussing the question thoroughly, however, it was moved by F. E. Webster, seconded by J. Baker, and carried unanimously: "That the next annual meeting be held in June, 1925."

CO-OPERATIVE EXPERIMENTS IN FIELD HUSBANDRY FOR 1924

Results of Tests of Grain Crops, Potatoes, Roots, Fodder Crops, Hay Crops, Etc.

Dr. C. A. Zavitz, Professor of Field Husbandry, O.A.C., Guelph

The committee on Co-operative Experiments in Field Husbandry for 1924, was as follows:—C. A. Zavitz (Director), W. J. Squirrell*, A. W. Mason, A. E. Whiteside, O. McConkey. In each of the past thirty-nine years co-operative experiments in Field Husbandry have been conducted throughout Ontario. During the thirty-nine year period upwards of one hundred thousand distinct experiments have been conducted in the different counties of Ontario in different farm crop projects.

Material was forwarded in the autumn of 1923 for seven, and in the spring of 1924 for thirty-five distinct co-operative experiments, making a total of forty-two separate co-operative projects within the past year. Definite instructions for carrying on the work were furnished with each of these forty-two experiments. Information regarding the two sets of experiments as sent out to Ontario farmers and to others interested, was as follows:

Winter Crops, 1923-1924

Material for any one of the seven experiments here mentioned will be sent free to any Ontario farmer applying for it, if he will conduct an experiment with great care and report the results after harvest next year. The seed will be sent out in the order in which applications are received as long as the supply lasts.

*During my absence last winter on sick leave, Professor Squirrell was Acting Director and the work was accomplished with marked efficiency.—C.A.Z.

1—Testing three leading varieties of Winter Wheat..... 3 plots
2—Testing one leading variety of Winter Rye and one of Winter Wheat..... 2 "
3—Testing spring application of five fertilizers with Winter Wheat..... 6 "
4—Testing Autumn and Spring Applications of Nitrate of Soda and Common Salt with Winter Wheat..... 5 "
5—Testing Winter Emmer and Winter Barley..... 2 "
6—Testing Hairy Vetches and Winter Rye as Fodder Crops..... 2 "
7—Testing mixtures of Hairy Vetches and Winter Rye for seed production..... 3 "

The exact size of each plot is to be one rod wide by two rods long. The material for Experiments Nos. 1, 2, 3, 5, 6 and 7 will be forwarded by mail, and for the other one by express. Each person wishing to conduct one of these experiments should apply as soon as possible, mentioning which test he desires, and the material, with instructions for testing and the blank form on which to report, will be furnished free of cost until the supply of experimental material is exhausted.

Spring Crops, 1924

The members of the Committee on Field Husbandry of the Ontario Agricultural and Experimental Union are pleased to state that for 1924 they are prepared to distribute in Ontario material for experiments with fodder crops, roots, grains, grasses, clovers, and fertilizers. Fully 2,600 varieties of farm crops have been tested in the Experimental Department of the Ontario Agricultural College, Guelph, for at least five years. These consist of nearly all the Canadian sorts, and several hundred new varieties, hybrids and strains, a few of which have done exceedingly well in the carefully conducted experiments at the College, and will be used for the co-operative experiments throughout Ontario in 1924.

Each person in Ontario who wishes to join in the work may choose any one of the experiments for 1924, fill out the accompanying form of application, and return the same to the Director of the Co-operative Experiments in Field Husbandry at as early a date as possible. The material will be furnished in the order in which the applications are received, until the supply is exhausted. A sheet containing the instructions for conducting the chosen experiment, and the blank form on which to report the results of the work, will be sent to each experimenter at the time the fertilizers or seeds are forwarded. All material will be furnished entirely free of charge to each applicant, and the produce of the plots will, of course, become the property of the person who conducts the experiment. In return, the Committee on Experiments desires to ask that each experimenter will sow all the plots belonging to the particular experiment which he has chosen for 1924, and that he will be very careful and accurate in his work and forward to the Director a complete report of the results obtained from the test, as soon as possible after the plots are harvested.

All seeds and fertilizers will be sent in good time for spring seeding, providing the applications are received at an early date. The supply of material being limited, those who apply first will be sure of obtaining the desired outfit.

The experiment selected should be indicated by using its number as given in the left hand column in the list of experiments. Further information is given on the application form which is attached.

Each applicant should make a second choice, for fear the first could not be granted.

LIST OF EXPERIMENTS FOR 1924

Grain Crops

	Plots
1—Testing three varieties of Oats	3
2—Testing O.A.C. No. 21 Barley and Emmer	2
3—Testing two varieties of Hulless Barley	2
4—Testing three varieties of Spring Wheat	3
5—Testing two varieties of Buckwheat	2
6—Testing three varieties of Field Peas	3
7—Testing two varieties of Spring Rye	2
8—Testing three varieties of Soy, Soja or Japanese Beans	3
9—Testing eight varieties of Flint and Dent Husking Corn	8

Root Crops

10—Testing three varieties of Mangels	3
11—Testing two varieties of Sugar Mangels	2
12—Testing three varieties of Swedish Turnips	3
13—Testing two varieties of Fall Turnips	2
14—Testing two varieties of Carrots	2

Forage, Fodder, Silage and Hay Crops

15—Testing the planting of Corn at six distances in the row	6
16—Testing Sudan Grass and two varieties of Millet	3
17—Testing Sunflower, Sorghum and Corn for fodder	3
18—Testing Grass Peas, Vetches and Soy Beans	3
19—Testing Rape, Kale and Field Cabbage	3
20—Testing two varieties of Biennial Sweet Clover	2
21—Testing two varieties of Alfalfa	2
22—Testing unhulled, hulled and scarified Sweet Clover Seed	3

Culinary Crops

23—Testing three varieties of Field Beans	3
24—Testing Sweet Corn for table use from different dates of planting	3

Fertilizer

25—Testing Low and High Grade Fertilizers and Manure with Oats and Red Clover	4
26—Testing different quantities of Lime with Sweet Clover	4

Miscellaneous

27—Testing Northern and Southern Grown Seed Potatoes	2
28—Testing two varieties of Potatoes	2
29—Testing three grain mixtures for Grain production	3
30—Testing three grain mixtures for Fodder production	3
31—Testing Hubam Sweet Clover at the rate of one pound and four pounds per acre in rows for seed production	2
32—Testing Hubam Sweet Clover when cut at three different stages of growth for green fodder and for hay	3
33—Testing two varieties of Hubam Sweet Clover for green fodder and for hay	2
34—Testing Hubam, Biennial White and Biennial Yellow Sweet Clover for green fodder and for hay	3
35—Testing Hubam, Biennial White and Biennial Yellow Sweet Clover by sowing alone in late June or early July for cover crops	3

The size of each plot is to be two rods long by one rod wide except for numbers 27 and 28 which is to be one rod square. For experiment No. 26, the Experimental Union will furnish the Sweet Clover seed and the experimenter the lime as required.

If you wish to conduct one of the thirty-five co-operative experiments in Field Husbandry enumerated on opposite page, kindly fill out this blank form and return it as soon as possible.

The distribution will be confined to the choice varieties included in the various experiments. In filling out the blank form, therefore, it is neither necessary nor advisable to mention any particular variety or varieties.

All material for experiments with instruction sheets enclosed will be sent by parcel post.

Address all communications to:

C. A. Zavitz, Ontario Agricultural College, Guelph, Ont.

Application for Material for an Experiment

I would like to conduct experiment number....but if all the material for that experiment has been applied for before my application is received I select experiment number....as my second choice. If the material for one of these experiments is forwarded to me, I will endeavour to:

1—Carry on the test according to the instructions received with the seed.

2—Exercise care and accuracy in the work, and

3—Report the results of the experiment as soon as possible after harvest, whether successful or not.

Weather Conditions

For the last twenty-five years records have been taken by the Department of Physics on the weather conditions at the Ontario Agricultural College. The total amount of precipitation for each of the last six growing months from April to September for 1924 and for the average of the past twenty-five years is given in the following table:

Period	April	May	June	July	Aug.	Sept.	Total
	inches	inches	inches	inches	inches	inches	inches
1924 (1 year).....	2.38	5.86	2.49	4.58	2.58	4.61	22.50
1900-1924 (25 years).....	2.62	3.10	2.86	3.56	2.98	2.63	17.75

The amount of monthly rainfall at Guelph in the past summer was above average in May, July and September and below average in April, June and August. For the six months, however, the total amount of rainfall was 4.75 inches over the average for the same months at the College for the past twenty-five years.

In each of the six months above referred to the mean temperature at the College was below normal.

According to the Dominion Bureau of Statistics in no winter during the past ten years did winter wheat have less winter killing in Ontario than in 1923-24.

The August bulletin of the Statistics and Publications Branch of the Ontario Department of Agriculture, reports average weather conditions as determined at Southampton, Chatham, London, Woodstock, Stoney Creek, Beatrice, Ottawa and Montreal River, as follows:

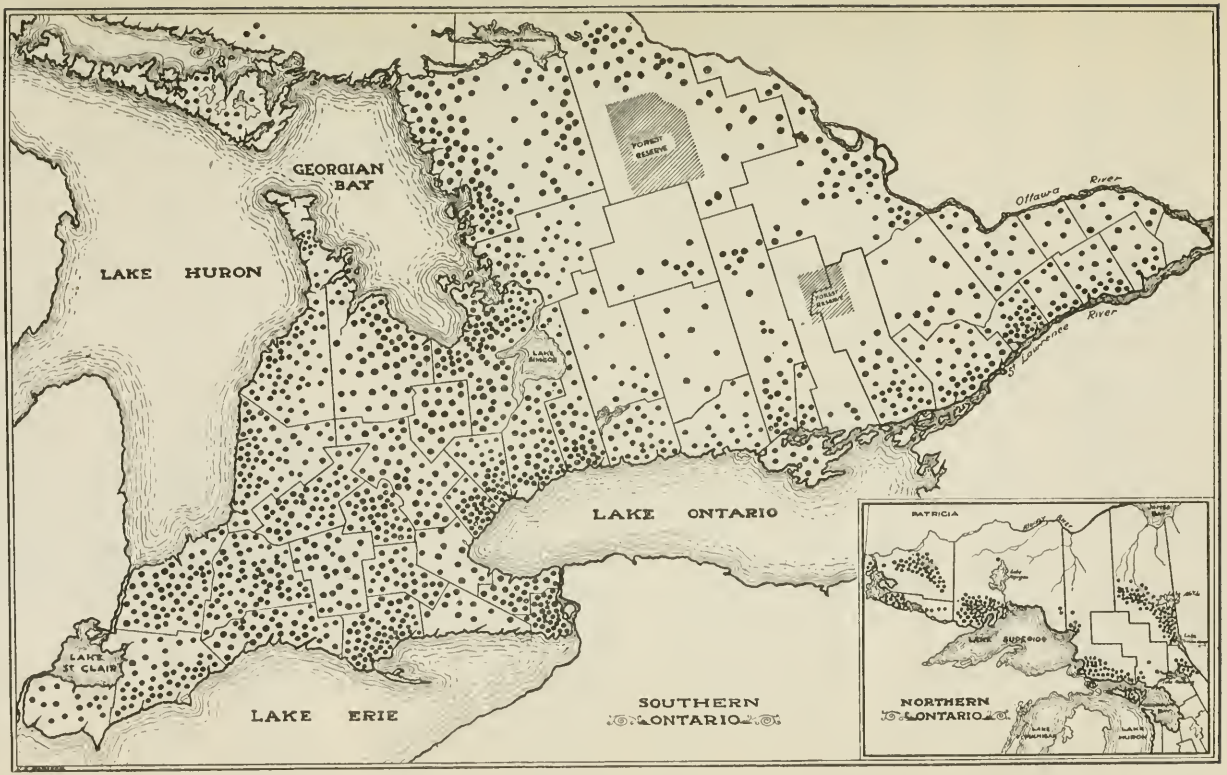
"The mean temperature for the five months, March to July inclusive, was 49.1 degrees, or 1.8 degrees below normal, and exactly the same as the previous year, but the individual months March and April were higher and the rest lower than in the preceding year. March was the only month exceeding its average, being 1.6 above."

"The rainfall for the same five months was 13.30 inches, or 0.26 inch above normal. March and April were below and the rest were above their respective averages. The average for the three growing months was 1.59 inches above, May and July being especially so."

Summary Results of Co-operative Experiments

The co-operative experiments in Field Husbandry which were started in Ontario with 12 experimenters in 1886 are still in a very thriving condition. In 1924 there were 485 more experimenters than in 1923, and 578 more than there were three years ago. Although there was a considerable decrease in the number of Ontario farmers engaged in the co-operative experiments between 1915 and 1921, owing to the war, scarcity of labour and more recently to very low prices of farm products, the increases of the last three years have been very encouraging. In 1924 there were no less than 2,194 separate tests conducted on various farms throughout the whole Province of Ontario.

The co-operative experimental work with farm crops is entirely voluntary on the part of the experimenters. The tests are conducted by the farmers themselves through the co-operation and guidance of the Field Husbandry



Location of Co-operative Field Husbandry Experiments in Ontario in 1923.
A map for 1924 would show 485 additional dots.

Committee of the Experimental Union. Only those farmers join in the work who make personal application to do so. It is probably safe to say that this voluntary co-operation of the farmers has been the secret of making such a decided success of this particular work in Ontario.

The reports of the co-operative experiments for 1924 which were received at the College were submitted to the same critical examination as in former years. This has involved the separate and careful examination of each report received, by three members of the committee independently of each other. Where necessary a discussion followed regarding individual reports, after which final decisions were made.

For the summary reports which are here presented only those individual reports which showed carefulness and reliability in all the essential details of the work were used.

The co-operative experimenters combine a large amount of practical experience on the farm, many educational advantages and a substantial training in experimental work as many of them are practical farmers, have had training in short or longer agricultural courses and have successfully conducted tests on their own farms in past years.

Unfavourable weather conditions, unavoidable accidents, slight changes made in the standard size of the plots or some other causes have prevented numerous reports from being used in the summary. Some of these, however, have had their local value in furnishing important object lessons and in supplying good seed.

Some of the farm crops now grown most extensively throughout Ontario originated through the small lots of pure seed of leading varieties obtained by the experimenters through the Field Crop Committee of the Experimental Union.

The following gives the summary results in tabulated form of the yield per acre of the varieties of grain crops tested throughout Ontario in 1924:

Experiments	Varieties	Straw (tons	Grain (bush.)	Grain (lbs.)
Oats (71 tests)	O.A.C. No. 144	1.43	55.35	1882
	O.A.C. No. 72	1.36	51.83	1762
	O.A.C. No. 3	1.05	45.08	1533
	Liberty Hulless	1.29	37.59	1278
Six-rowed Barley and Emmer (4 tests)	O.A.C. No. 21 Barley	1.22	48.43	2325
	Common Emmer	.99	35.22	1690
Hulless Barley (13 tests)	Guy Mayle	2.17	24.87	1492
	Black Hulless	2.01	23.44	1406
Spring Wheat (6 tests)	O.A.C. No. 85	1.81	31.07	1864
	Wild Goose	1.85	26.27	1576
	Marquis	1.66	24.33	1460
Winter Wheat (28 tests)	O.A.C. No. 104	2.14	31.12	1867
	Dawson's Golden Chaff No. 61	2.00	30.60	1836
	Kharkov	2.16	30.50	1830
	Imperial Amber No. 92	2.07	27.75	1665
	Yaroslaf	2.05	24.58	1475
Winter Rye and Winter Wheat (4 tests)	Winter Rye	2.22	43.93	2460
	Winter Wheat	1.54	32.67	1960
Buckwheat (8 tests)	Silver Hull	2.54	28.55	1370
	Rough	1.65	21.88	1050

Experiments	Varieties	Straw (tons)	Grain (bush.)	Grain (lbs.)
Field Peas (27 tests)	Potter	1.58	24.76	1486
	O.A.C. No. 181	1.35	23.98	1439
	New Canadian Beauty	1.69	23.60	1416
	Early Britain	1.33	21.90	1314
Field Beans (10 tests)	Michigan No. 630425	.53	27.07	1624
	Pearce's Improved Tree	.71	23.92	1435
	American Wonder	.78	23.79	1427
Soy Beans (4 tests)	O.A.C. No. 211	1.37	20.51	1230
	O.A.C. No. 111	1.15	15.84	950
	Brown	.96	13.33	800

In the first column of figures, the yield of straw per acre represents the total crop less the amount of grain and therefore includes the chaff with the straw. In the second column, the yield of grain per acre is given in bushels, and, in the third column, in pounds per acre. This makes possible a comparison between the different classes of grains where there is a difference in the standard weights per measured bushel.

Varieties of Oats. In 1924 there were four varieties of oats included in the co-operative experiments. The O.A.C. No. 72 and the O.A.C. No. 3 have been used in these tests in each of the past twelve years, the Liberty for four years, and the O.A.C. No. 144 in 1923 and 1924.

In the twelve years' experiments with the two first-named varieties there were no less than 769 separate reports received of the oat test. The average annual yield in bushels per acre for the whole period was 48.3 for the O.A.C. No. 72 and 43.2 for the O.A.C. No. 3. It should be remembered that the latter matures about ten days earlier than the former, and it has been observed throughout the co-operative experiments covering a period of fully a third of a century that the higher average yields of oats are obtained from late, as compared with the early varieties. It should also be remembered that the O.A.C. No. 3 is a very thin-hulled variety.

The Liberty oat, a new hulless variety, originated by Dr. C. E. Saunders, Central Experimental Farm, Ottawa, has given good satisfaction in both the experiments at Guelph and the co-operative experiments throughout the Province. In the four years' co-operative tests it was surpassed in average yield of grain per acre per annum by 251 pounds in comparison with O.A.C. No. 3, and by 406 pounds in comparison with O.A.C. No. 72.

Within the past two years the O.A.C. No. 144, which is a new variety, has made a particularly high record throughout Ontario, as can be seen from the following table:

Variety	Straw (tons)			Grain (bus.)			Grain (lbs.)		
	1923	1924	Ave. 2 Yrs.	1923	1924	Ave. 2 Yrs.	1923	1924	Ave. 2 Yrs.
O.A.C. No. 144	1.73	1.43	1.58	47.94	55.35	51.65	1630	1882	1756
O.A.C. No. 72	1.48	1.36	1.42	42.26	51.83	47.05	1437	1762	1600
O.A.C. No. 3	1.08	1.05	1.07	37.61	45.08	41.35	1279	1533	1406
Liberty Hulless	1.33	1.29	1.31	30.69	37.59	34.14	1043	1278	1161

In 1924 the O.A.C. No. 144 occupied first and the O.A.C. No. 72 fifth place in yield of grain per acre of the eighty-six varieties in the regular experiments at the College.

The O.A.C. No. 144 variety of oats was started from a selection taken, twelve years ago, from amongst plants of the O.A.C. No. 72 variety. It is decidedly different, however, from the O.A.C. No. 72 variety and seems distinct from any one of the three hundred or more named varieties of oats which have been tested for five years or more at the Ontario Agricultural College.

The O.A.C. No. 144 has surpassed the O.A.C. No. 72 by an average annual yield of grain per acre of 6.4 bushels in the regular experiments at the College for seven years, of 4.3 bushels in a special triplicate experiment at the College for five years, and of 4.6 bushels in the co-operative experiments throughout Ontario in the two years, 1923 and 1924. The seed of this new variety is not yet available in large quantities, but will again be distributed for one-eightieth acre plots to farmers living in all parts of Ontario who ask for the oat experiment in the spring of 1925.

The O.A.C. No. 144 is a tall, vigorous, broad-leaved, stiff-strawed, late variety of oats, which possesses a spreading head and a long, slightly brownish white grain practically free from awn and which produces a heavy yield of both grain and straw of good quality.

Application has been made to the Canadian Seed Growers' Association that the O.A.C. No. 144 variety of oats be accepted as eligible for registration.

There are at present seven varieties of oats eligible for registration in Canada through the Canadian Seed Growers' Association. Each of these has been under experiment at the Ontario Agricultural College from fourteen to thirty-five years. The following results are for the longest possible uniform period of time and are arranged in the order of the average yield of grain per acre as determined in the experimental plots at the College:

Varieties	Average Results for 14 years.				
				Yield per Acre	
	No. of Days to Mature	Height in Inches	Percentage of Hull	Straw (tons)	Grain (bushels by weight)
O.A.C. No. 72	109.6	47.1	28.9	2.16	81.76
O.A.C. No. 3	99.4	40.9	24.7	1.89	80.82
Abundance	107.1	43.1	28.8	2.03	77.22
Gold Rain	107.0	42.1	30.1	1.88	76.06
Victory	108.7	41.8	30.3	1.82	75.30
Banner	109.6	44.2	30.4	2.13	74.60
Alaska	100.9	41.7	23.9	1.67	70.96

Not only did the O.A.C. No. 72 give the highest average yield per acre of the fourteen years' experiments with the seven varieties eligible for registration, but it has also made a high record in the Standing Field Crop Competitions throughout Ontario. Within the past eight years out of the 1,108 first prizes awarded for fields of oats of at least five acres, the O.A.C. No. 72 received 565, Banner 307, Abundance 21, Gold Rain 13, and Victory 1. The O.A.C. No. 3 and the Alaska being about ten days earlier had but few entries. In spite of

this, however, the O.A.C. No. 3 received four first prizes and the Alaska one. All other varieties combined received 196 first prizes. These are interesting figures when it is considered that the judges took into consideration, when examining the crop immediately before harvesting, yield and quality of grain, vigour of growth, uniformity of maturity, absence of lodging and freedom from diseases, insect injury, weeds and all other kinds of grain. The O.A.C. No. 72 received more first prizes than the Banner in Eastern and in Northern, as well as in Western Ontario.

There seems to be much evidence that the O.A.C. No. 72 variety has had a decided influence in increasing the acre yields of oats in Ontario in the last few years. It would now appear that the acre yields would be further increased as the O.A.C. No. 144 variety comes into general use on the farms throughout the Province. In seven years' experiments at the College there has been an average of only one day's difference between the O.A.C. No. 144 and the Banner in reaching maturity. Very favourable returns have been received from the co-operative experiments from the south-western extremity of Ontario to Carleton in the east and Timiskaming in the north. It may not be quite as suitable in northern Ontario as an earlier variety such as the O.A.C. No. 3, and as it is a vigorous grower it will probably be more suitable for the average soil than for particularly rich moist land. Its strong straw, however, will commend it to many farmers who find trouble on account of their oats becoming lodged. The co-operative experiments are affording an opportunity to the oat growers of this Province to test this variety along with other kinds of oats on their own particular farms. From the information thus obtained each man will be able to continue with the variety which proves most suitable for his own conditions of soil and climate.

O.A.C. No. 21 Barley and Common Emmer. The O.A.C. No. 21 barley is now grown in Ontario to the exclusion of practically all other varieties. Not only has it supplanted almost entirely the other varieties of barley in this Province, but it is considered that the O.A.C. No. 21 is the most extensively grown variety of barley in Canada at the present time. Common Emmer which has been widely advertised has also proven itself to be a comparatively large yielder of grain. In the experiments at the College Common Emmer has shown itself to be a strong competitor of the largest yielding varieties of barley and oats in grain production. It will be seen, however, that in the co-operative experiments for 1924 the O.A.C. No. 21 barley surpassed the Common Emmer by an average of 635 pounds per acre. As these two crops have been under competition throughout Ontario in each of the past twelve years in which 140 distinct experiments were successfully conducted, the former surpassed the latter in yield of grain per acre per annum by 287 pounds. The introduction of the O.A.C. No. 21 barley by the Ontario Agricultural College has had a marked influence in increasing the acre yields of barley in Ontario to the value of about $40,000,000.

Hulless Barley. Quite a number of varieties of hulless barley have been tested at the College but some of them are light yielders and others are weak in the straw. The Guy Mayle and the Black Hulless have been two of the most satisfactory varieties. These have been entered in the co-operative experiments in each of the past twenty-one years and were successfully tested on 247 farms. With the standard weight of sixty pounds per bushel, the average yield per acre for the twenty-one year period has been 23.9 for the Guy Mayle and 23.4 for the Black Hulless.

Spring Wheat. In each of twelve years the Marquis and the Wild Goose varieties of spring wheat have been successfully tested throughout Ontario on 139 farms. The average yield of the former being 19.6 bushels, and of the latter 21 bushels. The Marquis originated from a cross of the Red Fife and the Hard Red Calcutta through the Dominion Experimental Farm System, and was selected and distributed by Dr. Charles E. Saunders, who was formerly Dominion Cerealist at Ottawa. The Wild Goose variety is a Durum wheat and is better suited for macaroni than for bread production.

In 1924 the O.A.C. No. 85 variety of spring wheat was distributed for co-operative experiments for the first time. The average results show that it gave particularly high returns, producing 2.9 bushels per acre more than the Wild Goose and 4.0 bushels per acre more than the Marquis. In fact the O.A.C. No. 85 variety of spring wheat gave almost exactly the same yield per acre as the highest yielding variety of winter wheat under experiment in the last year. In eleven years' experiments at the College it gave the highest average yield of grain per acre of the twenty varieties of spring wheat grown under similar conditions, except being slightly surpassed by two varieties of Durum wheats. The O.A.C. No. 85 variety of spring wheat was originated at Guelph by crossing the Red Fife and the Herison Bearded. It is a red wheat of good quality and has a bearded head with white chaff.

Winter Wheat. Twenty-eight successfully conducted co-operative tests were made with varieties of winter wheat in Ontario in 1924. The O.A.C. No. 104 variety outyielded the other four kinds used in the co-operative tests. As these five varieties have been used in the co-operative experiments in each of seven years the average results in yield per acre per annum including 168 successfully conducted experiments in different parts of the Province are as follows:—

O.A.C. No. 104	28.2 bushels
Dawson's Golden Chaff No. 61	27.1 bushels
Imperial Amber No. 92	25.9 bushels
Kharkov	24.2 bushels
Yaroslaf	22.2 bushels

The O.A.C. No. 104 came first in the co-operative experiments in each of six out of the seven separate years. The exception being in 1921, when it came second.

The O.A.C. No. 104 variety of winter wheat was originated at Guelph by crossing the Dawson's Golden Chaff and the Bulgarian. It is a white wheat with a beardless head and white chaff.

Winter Rye and Winter Wheat. In each of the last nine years one of the best varieties of winter rye and one of the best varieties of winter wheat have been compared with each other in the co-operative experiments. In 1920, 1921, 1922, 1923 and 1924, the Rosen Rye and the O.A.C. No. 104 winter wheat were the crops compared, and in the years 1915, 1916, 1918 and 1919, the Petkus rye and the Imperial Amber winter wheat were the varieties included in this test. In eight out of the nine years winter rye surpassed winter wheat in pounds of grain per acre, when the two were grown side by side under uniform conditions, and tested on three dozen farms located in different localities throughout the Province. It will be seen that in 1924 winter rye gave an average of 500 pounds of grain per acre more than winter wheat, in the average of four co-operative tests.

Buckwheat. Although the Rough or Rye variety of buckwheat gave a greater average yield of grain per acre than the Silver Hull in 1924, this does not hold in the average results for a longer period of time. These two varieties have been in the co-operative test for fourteen years, and included forty-eight separate trials. The average for the whole period, in yield of grain per acre per annum has been 27 bushels for the Rough or Rye and 21.4 bushels for the Silver Hull. It will therefore be seen that it is very unsafe to draw definite conclusions from experimental work covering a single year. The Rough buckwheat which is largely grown in the Maritime Provinces, although a large yielder, produces a grain which is not quite as good, either in appearance or quality, as that produced by the Silver Hull. The grain of the Rough buckwheat is rough, the hull somewhat thicker than is found in the Silver Hull variety, and it produces flour with a yellowish tinge and a slight bitterness.

Field Peas. Eighty-five successfully conducted co-operative tests have been made within the last four years with three varieties of peas, the average yields in bushels per acre per annum for this whole period have been as follows:

O.A.C. No. 181	24.74
Potter	23.07
Early Britain	22.43

In the four years' experiments the O.A.C. No. 181 gave the highest returns in three years and came second on the list in 1924.

The O.A.C. No. 181 variety of field peas was originated at Guelph by crossing the Prussian Blue and the White Wonder. It is an early variety with a medium length of vine, with small, fairly smooth white peas of good quality and appearance. Of nineteen pea varieties and hybrids tested at the College in each of the past seven years, the highest average yield per acre was made by the O.A.C. No. 181. It is interesting to note also that the second, third, and fourth highest yielding varieties for the seven year period were all new varieties originated at the College by hybridization.

Field Beans. Three varieties of field beans have been successfully tested on fifty-one Ontario farms within the past five years. The average results in yield per acre have been as follows: Pearce's Improved Tree, 25.6 bushels; Michigan No. 630425, 24.0 bushels; and American Wonder, 22.7 bushels. It will be seen that the Pearce's Improved Tree bean did not give quite as high results as usual in the past year. The Pearce's Improved Tree are large and the other two varieties are small-sized beans. All are white and of good quality.

Soy Beans. Four successfully conducted tests with three varieties of Soy beans were made in each of the past two years. The average yields per acre for the eight tests show the following returns: O.A.C. No. 211, 19.3 bushels; O.A.C. No. 111, 16.4 bushels; and Brown, 14.0 bushels.

In the experimental plots at the College in which eleven varieties of Soy beans were under test for a three-year period, previous to 1924, the O.A.C. No. 211 was first in yield, producing 23.8 bushels per acre. In the past year it headed the list in yield per acre of thirty-three varieties tested under uniform conditions.

Grains Grown in Combination for Grain Production.

In the spring of 1918 a co-operative experiment was started for the purpose of ascertaining whether the addition of one-half bushel of Goose wheat or one-

half bushel of Golden Vine peas, to a mixture of one bushel of oats and one bushel of barley, would be of any advantage in producing a larger yield throughout Ontario. Of the seven years of this experiment, sufficient returns of satisfactorily conducted experiments have been received to enable us to tabulate results in each of five years. The results so far show the following average returns in yield of grain per acre per annum, from the three different mixtures: Oats 1 bushel and barley 1 bushel, 2,104 pounds; oats 1 bushel, barley 1 bushel, and Golden Vine peas ½ bushel, 2,019 pounds; oats 1 bushel, barley 1 bushel, and Wild Goose spring wheat ½ bushel, 1,913 pounds. These results correspond very closely with the results obtained at the College.

In a mixture of this kind it has been found important to grow in combination those varieties which will mature at about the same time. For this purpose the O.A.C. No. 3 variety of oats and the O.A.C. No. 21 variety of barley have given very good satisfaction indeed, when the oats are sown at the rate of thirty-four pounds and the barley at the rate of forty-eight pounds per acre, making a mixture of eighty-two pounds per acre, the average yield of grain per acre produced has been at the maximum.

Varieties of Corn for Husking

In 1916 a co-operative experiment was started in the testing of the seven varieties of corn recommended for growing, in Ontario, by the Ontario Corn Growers' Association. For the eight years previous to 1924, this experiment included forty-eight separate tests of the whole crop and thirty-two of the shelled grain. The following gives the average yield in tons of whole crop and in bushels of shelled grain per acre per annum, of each of the varieties, for the eight-year period: Golden Glow, 9.51 and 65.62; White Cap Yellow Dent, 9.43 and 61.35; Wisconsin No. 7, 10.63 and 60.63; Bailey, 9.50 and 59.49; Salzer's North Dakota, 9.09 and 56.44; Longfellow, 8.99 and 54.78; Compton's Early, 8.52 and 52.45. Owing to the peculiar weather conditions in 1924, the good results are scarce and irregular, and it is not thought advisable to include them in tabulated form. It might be mentioned, however, that the Golden Glow, White Cap Yellow Dent and Wisconsin No. 7, produced the highest average yield of whole crop, and Golden Glow the highest yield of shelled grain per acre. The Gold Nugget variety which has been added to the experiment in the last few years, came second in yield of shelled grain. It might be mentioned that the Golden Glow variety has given the highest yield of grain per acre in six out of nine years, and it stands second in yield of whole crop in the average of all the experiments, the Wisconsin No. 7 standing slightly higher in yield of green fodder, but the latter variety is somewhat later than the Golden Glow.

Field Roots and Fodder Crops

In 1924 co-operative experiments were conducted with mangels; sugar mangels or stock-feeding sugar beets; swede turnips; fall turnips; field carrots; rape, kale and cow cabbage; grass peas, hairy vetches and soy beans; sunflowers, field corn and sorghum; and millet. There were in all forty-three good reports of successfully conducted tests received.

The legal weight per bushel is fifty pounds for mangels, sugar mangels, turnips and carrots.

The average results of successfully conducted tests with field roots, rape, kale and cow cabbage, are presented in the following table:

Experiments	Varieties	Yield per Acre (tons)
Mangels (10 tests)....	Sutton's Mammoth Long Red	24.50
	Keith's Prize Taker Yellow Globe	24.41
	O.A.C. No. 2 Strain Yellow Leviathan	22.58
Sugar Mangels (6 tests)	Bruce's Giant White Feeding	19.43
	Rennie's Tankard Cream	18.95
Swede Turnips (9 tests)	Perfect Model	27.84
	Ditmar's Bronze Top	27.26
	Garton's Superlative	24.70
Field Carrots (5 tests).	Rennie's Mammoth Short White	19.50
	Bruce's Intermediate Smcoth White	17.88
Rape, Kale and Field Cabbage (4 tests).	Dwarf Essex Rape	11.35
	Sutton's Earliest Drumhead Cabbage	11.20
	Thousand Headed Kale	7.56

Varieties of Mangels. There were ten reports received of successfully conducted tests with three varieties of mangels. The three varieties represent distinct types, one the long red, another the globe and the third the intermediate. The three varieties have given the following average yields of roots per acre per annum for the past six years during which time there were forty-three separate tests: Sutton's Mammoth Long Red, 30.6 tons; Yellow Leviathan, O.A.C. No. 2 strain, 30.0 tons; and Keith's Prize Taker, 28.3 tons.

Sugar Mangels. The names, sugar mangels and sugar beets for feeding purposes, refer to the same class of roots which are intermediate between mangels and the true sugar beets. Usually mangels have about five per cent., sugar mangels around ten per cent., and sugar beets fifteen to twenty per cent. of sugar. Sugar mangels have a larger percentage of the root growing above the ground than sugar beets and are more easily harvested than sugar beets, but are more difficult to remove from the land than mangels. In the average of ten years' results through the co-operative experiments the Bruce's Giant White Feeding has given an average yield per acre per annum of 25.5 tons and the Rennie's Tankard Cream, 24.8 tons. In the co-operative experiments throughout Ontario the Bruce's Giant White Feeding tested for ten years gave about five tons per acre less than the Sutton's Mammoth Long Red mangel, tested over Ontario for six years. Of course it should be remembered that these are on different farms and in a varying number of years.

Swede Turnips. The Swede turnips gave particularly high results in comparison with the other classes of roots in the past year. Perfect Model and Ditmar's Bronze Top each giving upwards of 27 tons of roots per acre in the average experiments conducted in nine localities over Ontario. In the average of two years' co-operative tests the Ditmar's Bronze Top gave 29.1 and the Garton's Superlative, 27.7 tons per acre. In Bulletin No. 268, on Farm Crops, issued in January, 1919, the following statement was made: "On examining the turnips for shipping quality in each of the past few years, it has been found that the Perfect Model and the Garton's Model stand particularly high." This year we had two of the leading Ontario turnip buyers visit our plots and examine

the turnips from the shipping standpoint. Although these men were here at different times, the results of their examinations were very similar. The General Manager of the Co-operative Turnip Growers' Association scored the three lots of Perfect Model higher than any other lot of the forty-four plots of turnips grown in the experimental grounds in 1924. It is interesting to note, therefore, that this variety heads the list of the turnips under test through the Experimental Union in the past year.

Field Carrots. In the average of the last two years, in which there were nine separate tests with field carrots throughout Ontario, the Rennie's Mammoth Short White gave 23.0 tons and the Bruce's Mammoth Intermediate Short White, 20.7 tons per acre per year.

Rape, Kale and Cabbage. The results from the Sutton's Earliest Drumhead cabbage is unusually low for 1924. In the average of the past six years in which there were sixteen experiments, the Sutton's Earliest Drumhead cabbage gave 16.4; the Thousand Headed kale, 11.9; and the Dwarf Essex rape, 11.8 tons of green crop per acre per annum. In each instance the seed was sown at the rate of about two pounds per acre and all were left unthinned, the cabbage being grown in exactly the same way as the rape and the kale for feeding purposes.

Grass Peas, Hairy Vetches and Soy Beans. For nineteen years in succession an experiment was conducted throughout Ontario in comparing hairy vetches, grass peas and common spring vetches for fodder production. The average results for the whole period show the following average yields of green crop per acre per annum: hairy vetches, 8.6 tons; grass peas, 7.5 tons; and common spring vetches, 6.7 tons. These are all leguminous crops and are therefore quite nutritious. Unfortunately, the seed of the hairy vetches is expensive and this crop which gives the highest average yield per acre is grown in Ontario only to a limited extent. In each of the past two years soy beans have been used instead of the spring vetches. In 1923 the soy beans headed the list in yield of green crop per acre. In the present year, however, sufficient reports of carefully conducted experiments were not received in sufficient number to enable us to use the summary in tabulated form. In one experiment from Oxford county, the experimenter placed the crops in the following order of preference: hairy vetches, soy beans and grass peas. The crops were fed separately to milch cows and the soy beans and hairy vetches were readily eaten but the grass peas seemed to be relished only fairly well. In another experiment from Welland county, the yield was in the same order and the green crop of the grass peas and the hairy vetches seemed to be somewhat more appetising to cattle and hogs than were the soy beans.

Sunflowers, Sorghum and Field Corn. Mammoth Russian sunflowers, Early Amber Sugar sorghum and White Cap Yellow Dent corn have been used in co-operative experiments in each of the past four years. The number of satisfactory reports received have been limited, but in average results of yield the sunflowers have given the highest and the sorghum the lowest yields. Sunflowers are grown to a limited extent either for mixing with corn or to be grown in northern districts, where corn will not thrive satisfactorily. Sorghum is grown to a considerable amount of satisfaction on some farms in south-western Ontario. Now that the European corn borer has become so destructive to the corn crop, more attention may be given to substitute fodder and silage crops, especially on some farms. In one experiment received from Muskoka this year, the sunflowers gave more than double the yield of corn and the sorghum produced very low results. In the experiment which was conducted on the

Demonstration Farm at New Liskeard, the sunflowers more than doubled the yield of the corn and the yield of corn more than doubled that of the sorghum.

Millets and Sudan Grass. Japanese Panicle millet, O.A.C. No. 71 millet and Sudan Grass have now been under experiment in each of five years. In the four years previous to 1924, Japanese Panicle millet produced 8.4 tons; O.A.C. No. 71 millet, 7.9 tons; and Sudan Grass, 6.6 tons of green fodder per acre. In 1924 in the two reports received, the three crops came in the same order of production.

Dates of Planting Sweet Corn

More than fifty varieties of sweet corn have been tested at the College, and a few of the best of these have been included in the co-operative tests. The varieties which have been used most extensively in these experiments have been Golden Bantam, Stowell's Evergreen, White Cory and Malakhoff. In each of the years in which it was tested, the Golden Bantam variety was reported by the experimenters as being the most desirable to grow for home use. In each of six years, previous to 1920, only two varieties were selected for distribution, namely, the Golden Bantam of the early, and the Stowell's Evergreen of the late. The Golden Bantam proved more popular with the experimenters, and produced a greater number of ears of corn of better quality than the Stowell's Evergreen. The former variety was about ten days earlier than the latter. The Golden Bantam variety is now very widely grown throughout Ontario. In each of the past five years a co-operative experiment has been conducted in planting the Golden Bantam sweet corn on three different dates. The seed was supplied by the College, and each experimenter was advised to plant the corn on three different dates, allowing two weeks to remain between each two dates of planting.

The following table gives the date of planting, the time at which ears were ready for table use and the number of good ears from fifty hills for each date of planting in 1924, and for the average of the past five years:

Planted		Ears ready for use		Number of Good Ears from 50 hills	
1924	Average 5 years	1924	Average 5 years	1924	Average 5 years
May 20th	May 18th	Aug. 16th	Aug. 12th	166	163
June 3rd	June 1st	Aug. 28th	Aug. 24th	159	157
June 16th	June 13th	Sept. 13th	Sept. 5th	153	145

The above table represents the average of six tests in 1924, and of forty-six tests in the five-year period. The dates given above are the averages of the actual dates on which the experimenters planted their corn, and on which the ears were ready for use. It will be seen that the Golden Bantam sweet corn can be planted at an average date of June 13th, with very good satisfaction. It will be seen that the plantings of June 13th, gave only about eleven per cent. less ears than those of May 18th. In private gardens it is often a good plan to plant a small quantity of the Golden Bantam sweet corn considerably earlier than May 18th. Of course, there is a certain amount of risk of its being frozen, but if the first crop is frozen it can be planted again without much difficulty.

With proper rotation of plantings there is not much difficulty in having Golden Bantam sweet corn for table use during the whole of August and September, and with care the season can often be extended over part of July and part of October, except in occasional years, when either the early frosts or the late frosts shorten the period. In 1924 plantings of Golden Bantam sweet corn were made in the garden of the writer on five different dates, one in May, two in June and two in July, although the latest date from which corn was obtained for table use was from the planting of July 5th.

Varieties of Potatoes

The variety factor in potatoes not only influences the yield and the quality of the potatoes grown, but also has a considerable influence in regulating the size and uniformity of the potatoes put on the market. One great weakness in potato growing in Ontario has been the presence of too many different varieties. The number, however, seems to be gradually decreasing and in the last few years particular emphasis has been placed on the Irish Cobbler of the medium early, and on the Green Mountain and the Rural New Yorker of the late. These have been selected, partly from the commercial standpoint, as being distinct, and each variety represents a group of varieties somewhat similar in tuber form.

For co-operative tests only two varieties of potatoes, namely, the Irish Cobbler and the Green Mountain, have been distributed since 1918. These two varieties, therefore, have been included in the co-operative experiments in each of the past seven years. In order to make the results as reliable as possible, seed of each variety has been obtained, each year, from Northern Ontario and from Southern Ontario. In 1924, successfully conducted reports were received from 153 experimenters. The following table gives the average results of these experiments in each of the past seven years and for the whole period:

Varieties	Percentage Rotten Potatoes		Percentage Small Potatoes		Average Yield of Total Crop per Acre (bushels)							
	1924	Ave.	1924	Ave.	1918	1919	1920	1921	1922	1923	1924	Ave.
Green Mountain....	.016	.8	7.30	10.0	129.5	132.5	301.5	176.1	193.0	231.0	257.2	203.0
Irish Cobbler.....	.004	.4	10.73	12.2	134.3	111.1	271.5	153.4	171.9	185.8	208.2	176.6

In six of the seven years in which this experiment was conducted, the Green Mountain surpassed the Irish Cobbler in yield per acre. There have been in all 890 successfully conducted tests with these varieties of potatoes on different farms throughout Ontario within the seven-year period. It will be seen in the average results for the seven years that the Green Mountain surpassed the Irish Cobbler by 26.4 bushels per acre per annum. The seed potatoes used in this experiment each year were as free from disease and as true to type as it was possible to obtain. Part of the experiment included seed potatoes of both varieties grown in Northern Ontario and part of the seed potatoes of both varieties were grown in Southern Ontario. This method has been followed each year.

It will be noticed from the table that there was somewhat more rot in the Green Mountain than in the Irish Cobbler in 1924 and in the average of the

seven-year period. The Irish Cobbler shows a higher percentage of small potatoes than the Green Mountain. The former is a medium early and the latter a late variety of potatoes.

Northern and Southern Grown Seed Potatoes

For a period of seven years, an experiment was conducted at the College in testing seed potatoes obtained from different sources. These sources were mainly from southern Ontario, northern Ontario and New Brunswick. Seed potatoes which were obtained about 140 miles north of Guelph in the Muskoka District near the Muskoka Lakes produced higher yields per acre than those obtained from southern Ontario and slightly higher than those obtained from New Brunswick. More recently potatoes which have been obtained from Rainy River, Algoma and Thunder Bay districts have given good results for seed purposes. Whether the good returns are caused by the immaturity of the seed, greater freedom from disease of the northern grown potatoes, or by other selection factors involved is now receiving special attention.

In 1924, two varieties of potatoes were obtained from southern Ontario and the same two varieties from northern Ontario, and these were carefully tested in co-operative experiments throughout the Province. There were in all ninety-one reports received of successfully conducted experiments. The following table gives the average results of this experiment in each of seven years and also for the average of the seven-year period which includes 439 separate tests:

District	Average Yield of Potatoes per Acre (Bush.)							
	1918	1919	1920	1921	1922	1923	1924	Average
Northern Ontario.....	142.8	134.6	292.6	168.1	187.2	195.3	209.3	190.0
Southern Ontario.....	123.9	128.5	279.8	163.9	183.2	187.7	198.8	180.8

It will be seen from the above results that in each of the seven years the northern grown seed potatoes produced a higher yield per acre than the seed which was grown in southern Ontario. The average results of the seven years' tests show that the northern grown seed produced 9.2 bushels per acre per annum more than that obtained from southern grown seed. It should be understood that the best seed potatoes obtainable were secured in every case. If average potatoes were obtained, it is quite probable the results would be even more marked, as there is a larger amount of disease in the general crop of southern Ontario than in the northern part of the Province.

Fertilizers and Manures with Farm Crops

For the past thirty-eight years, co-operative experiments with manures and fertilizers with farm crops have been conducted throughout Ontario. For the first five years, however, the investigations were somewhat of a preliminary nature. Since 1889 experiments have been conducted under a general scheme and much valuable information has been secured. The results of experiments conducted through the medium of the Experimental Union in past years may be secured in booklet form by writing to the Experimental Union Secretary, Agricultural College, Guelph.

In 1924 co-operative experiments were conducted with manures and fertilizers on winter wheat and on oats. The co-operative tests with manures and fertilizers with winter wheat belong to a series of tests started many years ago, and which include not only winter wheat but also oats, fodder corn, mangels, swede turnips and potatoes. In one set of tests, the application of manures and fertilizers with winter wheat was made in the autumn, and in another set of tests they were made in the spring. The co-operative work in the past year has been the application of manures and fertilizers in the spring to the winter wheat crop, and the use of low and high grade fertilizers and barnyard manure with oats and clover.

Kind of Fertilizer used	Fertilizer per Acre		Average Yield per Acre							
			Oats	Fodder Corn		Mangels	Swede turnips	Potatoes	Winter Wheat	
				Total	Ears				Fertilizer applied	
									Autumn	Spring
	Exact Wt.	Approximate cost before the war	5 yrs. 74 tests	8 yrs. 47 tests	8 yrs. 41 tests	5 yrs. 41 tests	5 yrs. 18 tests	5 yrs. 98 tests	8 yrs. 22 tests	5 yrs. 11 tests
	lbs.	$ c.	bus.	tons	tons	tons	tons	bus.	bus.	bus.
Nothing	.....	.....	38.9	8.2	2.7	20.6	19.6	129.2	18.9	22.0
Nitrate of Soda	160	4.80	46.3	9.4	3.1	26.5	22.5	153.4	22.7	28.8
Muriate of Potash	160	4.00	43.8	9.4	3.0	24.6	23.7	160.8	22.3	28.5
Superphosphate	320	3.92	43.6	9.0	3.1	24.2	24.7	156.8	22.4	27.7
Complete Fertilizer	213	4.24	48.7	9.4	3.2	25.4	25.0	166.3	24.1	27.2
Potato Fertilizer	320	5.52	.....	.....	.....	.....	.....	167.5	.....	.....
Royal Canadian	320	5.60	.....	.....	.....	.....	.....	164.5	.....	.....
Cow Manure	40,000 (20 T.)	6.00	.....	.....	.....	.....	26.9	174.7	26.3	27.9

For the co-operative experiments the fertilizers and seeds have been sent from the College to experimenters each year. In all instances in the experiment the nitrate of soda and the muriate of potash were applied at the rate of 160 pounds per acre, and the superphosphate at the rate of 320 pounds per acre. A mixture of complete fertilizer was composed of one-third the amount of each of these fertilizers and was, therefore, applied at the rate of 213⅓ pounds per acre. As early in the spring as the land was dry enough, the fertilizers were made into a powdered condition by breaking any lumps which had been formed and were applied to their respective plots. The advice to the experimenters was to apply 500 pounds of average cow manure on one plot in each test, the application being equal to twenty tons per acre. The cow manure and the fertilizers were used as a top dressing. The preceding table gives not only the average results of fertilizers and manure applied in the spring with winter wheat, but also fertilizers applied with a number of other farm crops.

The cost of each fertilizer given in the table represents approximately, under normal conditions previous to the war, the average cost per acre for the fertilizers as used in the co-operative experiments. The quotations were based on the factory prices for quantities of about one ton of each fertilizer. The twenty tons of cow manure would be about twelve good sized loads per acre, and manure in Guelph has been selling at fifty cents per load, which is

probably about the average for the Province. It is exceedingly difficult to place a price on farmyard manure, as in most cases it is not purchased, but is produced on the farm. Each person may place such value on the manure as he deems expedient and study the results according to his own circumstances. It should be stated that the freight on the fertilizers and the application of both the fertilizers and the manure are not taken into consideration in the foregoing statement, nor yet is there any account made of the influence of the different fertilizers and the manure upon the land after the first season, except in the later experiments. The results of fertilizers with farm crops over a series of years are studied in connection with the field experiments at the College.

Each experimenter was asked to conduct his fertilizer test on the average soil of his farm. The results here presented are, therefore, for the average soils of Ontario. On some farms the fertilizers paid much better than they did on others. Every farmer who uses fertilizer should know as much as possible about the requirements of his own particular farm. The results here presented speak in a general way regarding the use of these fertilizers under the varying conditions of the farm lands of the Province, and should furnish valuable suggestions.

High and Low Grade Fertilizers with Oats

A co-operative experiment in growing oats, with a high grade and a low grade fertilizer, with farmyard manure and with no manure or fertilizer, was started in 1920, and has now been conducted for four years. The high grade fertilizer was what is known as 3-8-3, and the low grade, 1-8-1, and each of these were applied at the rate of 200 pounds per acre. The farmyard manure was used at the rate of ten tons per acre. The fertilizers were mixed in the soil to a depth of from one to two inches and the farmyard manure to a depth of from four to five inches. Clover was sown with the oats in each instance. In time we hope to have results showing the influence of the fertilizers and manure on the oats in the first year and on the clover in the second year after the applications were made. The results here presented show the average yield of oats per acre per annum for the four years' experiments which include thirteen tests, of which four were for the year 1924:

Barnyard Manure	62.8 bushels.
High Grade Fertilizer	59.7 bushels.
Low Grade Fertilizer	56.4 bushels.
Nothing	51.2 bushels.

Barnyard manure gave the highest returns in three out of four years, and the high grade fertilizer gave the highest returns in one year. The unfertilized land gave the lowest results in each of the four years. It will be seen that in the average results, land which received ten tons of barnyard manure per acre gave 11.6 bushels per acre more than the land which was not fertilized. In each instance the experimenter was advised to select soil which was uniform throughout and which was about the average quality of the farm.

SOME OF THE ADVANTAGES OF CO-OPERATIVE EXPERIMENTAL WORK IN FIELD HUSBANDRY

(1) It furnishes hundreds and even thousands of object lessons annually which form centres for interesting study along the lines of progressive agriculture.

(2) It systematizes seed distribution along definite lines and for valuable purposes.

(3) It distributes the very best seeds, plants, fertilizers, etc., among the best men and then assists and encourages those same men to experiment and to investigate.

(4) It helps the farmers to help themselves.

(5) It educates along the lines of careful handling, close observation, accurate calculation, and economical methods.

(6) It trains men to unite science with practice and to lead other men to do likewise.

(7) It helps farmers to understand better the scientific principles that they read about in bulletins, reports, and newspaper articles and that they hear about at agricultural meetings.

(8) It supplies a direct as well as an indirect source of information for the farmers.

(9) It enables practical men to obtain information regarding varieties of field and garden crops, selections of seed, dates of seeding, methods of cultivation, ways of increasing soil fertility, etc., for their own particular farms which they could not get in any other way.

(10) It enables farmers to get a supply of pure seed of the leading varieties of grains and potatoes, which rapidly increase in quantity, and thus furnishes seed for sowing and planting on large areas and for selling at good prices.

(11) It provides a wholesome and an attractive bill of fare for the farmer's table by encouraging the cultivation and use of sweet corn, high quality beans, etc.

(12) It leads to a substantial increase in farm profits.

(13) It works successfully in nearly every branch of farming.

(14) It penetrates into those parts of the country where agricultural advancement is ordinarily very slow.

(15) It supplies valuable topics and results for discussion in the field, at the fireside, in the corner grocery, and at meetings of farmers' clubs.

(16) It stimulates the local newspapers to take a deeper interest in advocating better methods of farming.

(17) It furnishes some exceedingly important results for printing and distributing in the form of bulletins and reports.

(18) It adds dignity to farming and pleasure to farm life.

(19) It exerts a wholesome influence in keeping the farm boys interested in farm work.

(20) It trains the best men of the country, including the college graduates, to help in the solution of scientific problems which arise in connection with the various departments of agriculture.

(21) It furnishes a post-graduate course for young men after returning home from college.

(22) It forms a bond of union between the college graduates and their alma mater, as well as among the graduates themselves.

(23) It gives the graduates of an agricultural college an excellent opportunity for exerting a good influence in their respective neighbourhoods.

(24) It establishes a sympathetic spirit between the workers at the experiment station and the workers throughout the country.

(25) It enables both the station and the college officers to know better the real needs of the agriculture of the present day.

(26) It makes a practical application of many of the results of the experiment station.

(27) It helps to check some of the experiments at the central station by

having similar experiments duplicated on hundreds of farms under different conditions of soil and climate.

(28) It increases the popularity of the agricultural college, and helps to attract young men to the institution as students.

(29) It develops a keen interest in the work of the experiment station.

(30) It leads to a steady advance in agricultural education throughout Ontario.

STANDARD VARIETIES

To encourage the selection of the best varieties of grain and potatoes, the Agricultural Societies of Ontario, have decided that for the Field Crop Competitions, throughout the Province, the following varieties should be used:—

Oats.—*Late:* O.A.C. No. 72, Abundance, Gold Rain, Banner, Yellow Russian. *Early:* O.A.C. No. 3, Alaska.

Barley.—O.A.C. No. 21.

Winter Wheat.—O.A.C. No. 104 (white), Dawson's Golden Chaff (white), Imperial Amber (red).

Spring Wheat.—Marquis, Red Fife, Huron, Goose.

Peas.—Canadian Beauty, Golden Vine.

Beans.—Pea, Yellow Eye.

Corn.—*Dent:* Golden Glow, Wisconsin No. 7, White Cap Yellow Dent, Bailey. *Flint:* Salzer's North Dakota, Longfellow, Quebec No. 28.

Potatoes.—*Late:* Green Mountain, Dooley. *Early:* Irish Cobbler, Early Ohio.

Turnips.—Perfect Model, Canadian Gem.

VARIETIES ELIGIBLE FOR REGISTRATION

The varieties of farm crops eligible for registration in the Canadian Seed Growers' Association at the end of the year 1924, were as follows:—

Oats.—O.A.C. No. 72, O.A.C. No. 3, Abundance, Gold Rain, Victory, Banner, Alaska.

Barley.—O.A.C. No. 21 (six-rowed), Manchurian (six-rowed), Bark's (six-rowed), French Chevalier (two-rowed), Canadian Thorpe (two-rowed), Hannchen (two-rowed), Success (six-rowed, hooded), White Hulless (awnless and beardless).

Winter Wheat.—O.A.C. No. 104 (white), Dawson's Golden Chaff (white), Kharkov (red).

Spring Wheat.—Marquis, Early Red Fife, Red Fife, Ruby.

Winter Rye.—Dakold, N.D. 959.

Spring Rye.—Prolific.

Peas.—Arthur, McKay, Golden Vine, Prussian Blue, Maple.

Flax.—Crown, Ottawa Longstem 52, Premost.

Corn.—Wisconsin No. 7 (dent), White Cap Yellow Dent, Leaming (dent), Bailey (dent), Essex Dent, Northwestern Dent, Salzer's North Dakota (flint), Longfellow (flint), Compton's Early (flint), Quebec No. 28 (flint), Golden Bantam (sweet), Stowell's Evergreen (sweet).

Grasses.—Superior, Brome.

Alfalfa.—Grimm, which traces its origin to Carver County, Minnesota; Ontario Variegated, which traces its origin to a field known to have withstood successfully at least twenty winters.

Sweet Clover.—Arctic.
Potatoes.—Dooley, Rural New Yorker, Green Mountain, Gold Coin, Wee McGregor, Netted Jim, Irish Cobbler, Early Ohio.

FIVE NEW VARIETIES FOR REGISTRATION

A request has been made from Ontario that the following varieties of farm crops be accepted as eligible for registration in connection with the Canadian Seed Growers' Association: O.A.C. No. 144 Oats, O.A.C. No. 181 Field Peas, O.A.C. No. 85 Spring Wheat, O.A.C. No. 211 Soy Beans, O.A.C. No. 2 Yellow Leviathan Mangel. Each of these five varieties has done exceptionally well in the experiments at the College and also in the co-operative experiments throughout the Province.

RESULTS OF CO-OPERATIVE EXPERIMENTS IN AGRICULTURAL CHEMISTRY

By Prof. R. Harcourt, O.A.C., Guelph

During the past year we continued the "triangle experiments" started two years ago. This past season the following tests were completed: Potatoes, 15; beans, 6; sugar beets, 5; onions, 1; celery, 1.

As stated in last years' report the triangle experiment does not mean that the plots are triangular, but that there are three fertilizer constituents used and that a triangle is used for purposes of calculating the amounts of these constituents used in a plot. This type of experiment, in twenty per cent. variations, gives twenty-one plots. The object of the varying arrangement of the fertilizer constituents is to bring out the mixture of the plant food materials which will give the most economical result.

The experiments of the first two years' work with potatoes all showed that where there was a good supply of organic matter in the soil, especially if it is derived from legumes, no increased returns were obtained from the nitrogen applied. This is an important point as it shows that for general farming, and for the potato in particular, there is no need of applying expensive forms of nitrogen.

This past season, however, a different result was obtained for in practically all the experiments a small amount of nitrogen in the mixture gave the best results. In the two former year's work a mixture, approximating 0-12-4, gave the greatest weight of potatoes per acre. This year a mixture containing some nitrogen gave the largest yield, but not always the most economical returns. Phosphorus still shows decided influence on the returns. The wet season and the consequent slow rate of nitrification probably had something to do with change in the results obtained. The work will be continued.

We have not as yet got the complete results of the experiments on beans, but the indications are that the wet season has made a change from that obtained the previous year.

Five experiments were carried out with sugar beets. The increase in yield due to the fertilizer was very marked and clearly indicates that the yield can be very much increased by the judicious use of fertilizers.

The dry weather of October was so favourable for the ripening of the beets that even the heaviest yielding plots were well matured. Consequently there was very little difference in the per cent. of sugar in the beets of the various plots.

The onion and celery experiments were the first triangle experiments we have carried out with these crops. Naturally the results are not conclusions, but the work will be continued.

The growers of turnips for table use were very anxious to try some experiments with fertilizers this season. Their application for this work came in after the season's work was planned, but we placed three simple two plot experiments, the object being to bring out the effect of acid phosphate on turnips.

The acid phosphate was applied at the rate of 500 pounds per acre immediately before drilling the ground for turnips.

The increased yield on the three plots due to the fertilizer was 176, 143 and 122 bushels, or an average of 147 bushels per acre. Valuing the acid phosphate at $24 per ton and the turnips at 10 cts. per bushel, a simple calculation shows that the use of this fertilizer increased the yield sufficiently to give a profit over cost of fertilizer in each case and, on the average, $8.70 per acre.

CO-OPERATIVE EXPERIMENTS IN WEED ERADICATION

J. E. Howitt, Professor of Botany, O.A.C., Guelph

During the past thirteen years (1911-1924) the Ontario Agricultural and Experimental Union carried on co-operative experiments in the eradication of weeds. Over one hundred farmers carried on satisfactory experiments. The weeds experimented with were Perennial Sow Thistle, Twitch Grass, Bladder Campion or Cow Bell, Wild Mustard, Ox-eye Daisy, Field Bindweed, Wild Oats and Chess. The following is a brief summary of the results obtained from these experiments:

Experiments	Total Number of Experimenters	Reporting Complete Success	Reporting Partial Success	Reporting Failure
1.—The use of Rape in the destruction of perennial Sow Thistle	16	11	4	1
3.—The use of Rape in the destruction of Twitch Grass	19	14	5	..
4.—Method of cultivation for the destruction of Twitch Grass	23	11	11	1
5.—Method for the eradication of Bladder Campion or Cow Bell	11	6	5	..
6.—Spraying with Iron Sulphate to destroy Mustard in Cereal Crops	24	21	2	1
7.—A method of cultivation for the destruction of Oxeye Daisy	3	2	1	..
8.—A method of cultivation and cropping for the suppression of Field Bindweed	8	4	3	1

REPORT OF EXPERIMENTAL WORK IN AGRICULTURAL PHYSICS FOR THE YEAR 1924

W. C. Blackwood, Professor; and R. R. Graham, Associate Professor of Agricultural Physics, O.A.C., Guelph

Cold Storage

During the last two or three years considerable time has been devoted to investigation of different types of icehouses and small cold storages suitable for farmers' use. The results have been published this year in Bulletin Number 306, "Cold Storage on the Farm." This new bulletin supersedes Bulletin 207, and deals with a few new features as automatic ice-cooled small storages, a combination ice refrigerator and dumb waiter for the farmer's kitchen, and a summary of results of tests we made of several wall fillers as sawdust, shavings, flax fibre, etc., all more or less suitable materials as insulators for cold storage walls, outside wintering cases for bee-hives, and insulation of cooling tanks for milk and cream. The interest in storing ice and providing some means of refrigeration on the average farm is increasing. The new bulletin, we believe, will be helpful to all those desiring information along these lines of improvement.

Farm Home Conveniences

In respect to this work our main efforts have been confined to establishing more or less permanent installations of pumps, water systems, bathroom and kitchen plumbing, sewage disposal system, hydraulic ram, etc., all of course adaptable to farm home conditions, in our demonstration laboratory in the Physics building. All of these equipments are kept in good running order all the time so that we can on a moment's notice demonstrate how they work to visitors and students. Even already we have found these equipments exceedingly valuable in convincing farmers of their value and services. In connection with these installations we have initiated some very important tests particularly in regard to efficiency of anti-siphon traps, simplification of making joints on waste pipes, a simple method of providing hot and cold water at the kitchen sink, etc. These experiments have not been completed as yet so that we are not in a position to make any definite reports just now. In addition to this experimental work we have prepared material for a new bulletin to be called "Farm Plumbing," soon to be published. It will treat of water systems, plumbing and sewage disposal as applied to the farm. During the year we have made several personal visits to farm homes to advise regarding best arrangements of water supply, plumbing and sewage disposal. The correspondence in this work has increased very much over previous years, so that prospects for getting the farmers to take more interest in equipping their homes with modern conveniences is looking quite bright.

REPORT OF THE COMMITTEE FOR BACTERIOLOGICAL CO-OPERATIVE WORK

Resume of Co-operative Experiments in the Disinfection of American Foulbrood Infected Combs, and also in "Soilgro"

D. H. Jones, Professor of Bacteriology, O.A.C., Guelph

A new, effective, inexpensive and simple method of disinfecting bee combs infected with *B. larvae*, the cause of American foulbrood, has been devised as a result of a series of experiments with a number of disinfectants.

Izal, be-health, chlorazene, formalin in aqueous dilutions, and Hutzelman's solution (a commercial preparation of formalin and alcohol) were the disinfectants tested.

Bee combs infected with American foulbrood were immersed in various dilutions of the different disinfectants for varying lengths of time—from two hours to as long as eighteen days in some cases.

Bacterial cultures, on a modification of Sturtevant's yeast-peptone-egg-yolk-agar, were then made from larval scales taken from the treated combs to determine whether or not the spores of *B. larvae*, as they occur in such scales, had been killed.

The cultures made from larval scales taken from the combs immersed forty-eight hours respectively in izal, chlorazene and be-health, all showed growth of *B. larvae*, thus indicating that such immersion in these disinfectants had not been effective in killing the spores of *B. larvae* as they occur in the dried larval scales of infected combs, and further, that in the case of immersion in be-health, the effect on the combs was very injurious, the wax being made weak and friable.

The cultures made from larval scales taken from the combs immersed in the water formalin mixtures and those immersed in Hutzelman's solution, failed to show growth of *B. larvae* in the case of open cells after twenty-four hours' immersion and in the case of closed cells after forty-eight hours' immersion, thus indicating that this treatment had been effective in killing the spores of *B. larvae* as they occur in dried larval scales in infected combs.

Further, it was found that by rinsing the combs under the water tap after they had been removed from the formalin dilutions it was possible to readily get rid of the formalin, so that, after drying, the combs could immediately be put to use.

In view of the fact that these laboratory experiments indicated that the water dilutions of formalin were equally effective in destroying the spores of *B. larvae* as was the more expensive alcohol dilution of formalin, known commercially as Hutzelman's solution, we recommended the Apiculture Department to try out the water-formalin method on infected combs in regular field work, using a mixture of formalin 20 per cent. and water 80 per cent. and immersing the combs in this solution for forty-eight hours.

Accordingly, Mr. G. L. Jarvis, of the Apiculture Department, treated a number of badly infected combs as recommended, and these, after such treatment, were put out for use and carefully observed throughout the season. Now, at the end of the season, he reports that not a single case of American foulbrood has resulted from the use of these combs.

Thus is placed in the hands of apiculturists an effective, inexpensive and simple method of disinfecting bee combs infected with American foulbrood, a disease that has given them an enormous amount of trouble to keep in check.

A number of combs infected with American foulbrood treated with Hutzelman's solution by various apiculturists in different parts of the Province were received for bacteriological determination as to whether or not the treatment had been effective.

The necessary culture tests were made and reports of same forwarded to those who sent in the combs.

"Soilgro"

In the early months of the year a bacterial preparation known as "Soilgro" was put on the market by a Toronto firm. An explosive advertising campaign was inaugurated by the company in the agricultural press and by agents throughout the country, in which apparently extravagant claims were made regarding the benefits to be derived from the use of this preparation as a crop improver when applied to the soil. The price list quoted 1 pint, $2; 1 gallon, $6; 1 barrel, $100.

We immediately began to receive requests from farmers, agricultural representatives and newspaper publishers as to our opinion regarding the claims made. In order to comply with these requests it was necessary for us to make a bacteriological and chemical analysis of a sample. This was accordingly done with the following findings:

Chemical tests of "Soilgro" direct showed no ammonia, no nitrite and no nitrate present.

Bacterial cultures made on various solid culture media showed:

Various decomposition bacteria and moulds—numerous.

Nitrifying bacteria—none.

Nitrogen-fixing bacteria—none.

Chemical tests of cultures made in the necessary specific liquid culture media showed ammonification as a result of the action of the decomposition bacteria but no nitrite nor nitrate formation nor any nitrogen fixation even after six weeks' cultivation.

Our opinion based on these findings was that the claims made for the preparation were without foundation.

We did not make any crop tests as the results obtained from our laboratory investigation tallied with those we obtained in 1920 from our investigation of "Soil Vaccine" on which occasion we also ran a number of crop tests during the season, the results of which showed no benefits to accrue from the use of the preparation.

We, however, recommended Mr. E. F. Palmer, Director of the Vineland Experiment Station, to try out "Soilgro" on some of his crops. He did this and now at the end of the season reports that his check plots did as well as those that were treated.

List of Bulletins and Reports Available at time of Printing this Report

187. The Codling Moth.
188. Weeds of Ontario.
194. Apple Orcharding.
198. Lime Sulphur Wash.
210. Strawberries and Raspberries.
222. Currants and Gooseberries.
224. Greenhouse Construction.
231. Vegetable Growing.
240. Bacterial Diseases of Vegetables.
242. Diseased Mouths: A Cause of Ill-Health.
243. Nature Study or Stories in Agriculture.
249. The Pear in Ontario.
250. Insects Attacking Fruit Trees.
252. Preservation of Food: Home Canning.
257. Diseases of Fruit Trees.
261. Wheat and Rye.
262. Sugar Beets.
266. Buttermaking and Cheesemaking.
267. Farm Water Supply and Sewage Disposal.
268. Farm Crops: Experiments at O.A.C.
269. Hay and Pasture Crops: Grasses, Clovers, etc.
274. Sheep.
276. Bee Diseases.
277. Motor Transportation in Rural Ontario.
284. Milk Production Costs.
285. Flour and Bread Making.
287. Silos and Silage.
289. The Cabbage Maggot.
291. The Production and Marketing of Ontario Cheese.
292. Farm Poultry.
293. Feeding Young Live Stock.
294. Grafting Fruit Trees.
296. Sweet Clover.
297. Colony Houses for Swine.
298. Soil Surveys.
299. The Bacon Hog.
300. The Care of Farm Implements.
301. The Brood Sow.
302. Insecticides and Fungicides.
303. Mushrooms.
304. Contagious Abortions of Cattle.
305. Diseases of Poultry.
306. Cold Storage on the Farm.
307. Selection, care and Management of the Boar.
308. The Culture of Tomatoes.
—. Circular on Corn Borer.

REPORTS

Beekeepers' Association.
Fruit Branch.
Horticultural Societies.
Vegetable Branch.
Dairy Branch.
The Ontario Veterinary College.
The Entomological Society.
The Experimental Union.

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HON. JOHN S. MARTIN, B.A.
Minister of Agriculture

ONTARIO DEPARTMENT OF AGRICULTURE
Parliament Buildings Toronto

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Ontario Department of Agriculture

ANNUAL REPORT

OF THE

STATISTICS BRANCH

1924

PART I.—AGRICULTURAL STATISTICS
PART II.—CHATTEL MORTGAGES

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PART I—AGRICULTURAL STATISTICS

THE WEATHER

TEMPERATURE.—The following table gives the temperature of the Province for each month during the last five years, together with the mean annual temperature, also the mean temperature for the six months, April-September, practically the growing season, together with the average for the five years, 1920-1924, and the forty-three years, 1882-1924.

Months	1924	1923	1922	1921	1920	1920–1924	1882–1924
January	16.9	16.4	16.8	23.0	7.8	16.2	17.9
February	15.8	14.5	19.5	23.6	15.8	17.8	17.3
March	29.1	22.6	30.8	35.8	31.2	29.9	27.2
April	41.1	39.4	43.2	47.9	38.9	42.1	41.7
May	48.6	50.2	58.3	57.2	53.4	53.5	53.7
June	61.6	65.6	64.3	66.0	64.9	64.5	63.7
July	65.6	67.2	67.2	75.4	65.0	68.1	68.3
August	64.5	64.2	65.6	65.9	68.0	65.6	65.6
September	55.6	59.3	61.3	64.5	61.9	60.5	59.3
October	49.9	46.8	47.6	48.0	54.1	49.3	47.6
November	36.1	36.4	38.0	32.9	34.3	35.5	35.3
December	18.6	33.0	23.4	24.1	27.2	25.3	23.6
Annual Mean	41.9	43.0	44.7	47.0	43.6	44.0	43.4
Mean for six months, April to September	56.2	57.7	60.0	62.8	58.7	59.1	58.7

The mean temperature for 1924 was 41.9 degrees, or 1.1 degree colder than the preceding year, and 1.5 degree below the normal of forty-three years, 1882-1924.

The mean for the six growing months, April-September, was 56.2 or 1.5 degree colder than the preceding year, and 2.5 degrees colder than the forty-three year normal, and all of these six months were below their respective averages.

SUNSHINE.—In the following table the averages of sunshine are derived from the records of the weather stations at Woodstock, Toronto, Lindsay, Kingston and Ottawa.

Months	Sun above horizon	1924	1923	1922	1921	1920	1920–1924	1882–1924
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January	285.7	66.0	70.9	109.4	114.6	99.3	92.0	77.8
February	302.5	125.5	104.3	100.4	92.1	115.4	107.5	104.8
March	369.9	134.4	139.4	162.6	111.7	155.7	140.8	145.4
April	406.4	183.3	181.8	181.3	179.4	145.6	174.3	180.9
May	461.1	192.0	271.5	236.0	258.3	265.6	244.7	213.8
June	465.7	241.8	255.6	228.5	302.4	227.0	251.1	248.0
July	470.9	289.4	270.4	298.8	280.2	231.5	274.1	269.0
August	434.5	252.0	265.9	256.0	242.2	227.0	248.6	240.8
September	376.3	157.3	166.5	218.0	194.8	217.6	190.8	185.8
October	340.2	204.9	159.4	160.8	132.9	156.3	162.9	140.9
November	286.9	91.2	72.7	60.7	49.1	49.6	64.6	78.1
December	274.3	59.6	58.7	78.8	65.0	47.2	61.9	62.5
Total for the year	4,474.4	1,997.4	2,017.1	2,091.3	2,022.7	1,937.8	2,013.3	1,947.8
Total for six months, April to September	2,614.9	1,315.8	1,411.7	1,418.6	1,457.3	1,314.3	1,383.6	1,338.3

The year 1924 had 1,997.4 hours of sunshine, 49.6 hours more than the average for the last forty-three years. The six growing months, April-September, had 1,315.8 hours, or 22.5 hours less than average. Six months were above and six below normal. October had the greatest departure above with 64.0 hours and May the greatest below normal with 21.8 hours.

PRECIPITATION.—The fall of both rain and snow for the five winter months, including November, 1923, and March, 1924, is given in the following table for five years, together with the average for the forty-three years, 1882-1924. One inch of water is equivalent to ten inches of snow.

Months	1924	1923	1922	1921	1920	1920–1924	1882–1924
November:	in.	in.	in.	in.	in.	in.	in.
Rain	2.16	1.25	1.08	1.72	1.89	1.62	1.93
Snow	4.2	5.1	11.7	10.1	7.2	7.7	7.3
December:							
Rain	2.04	0.47	1.39	1.79	0.07	1.15	1.29
Snow	8.6	14.2	12.9	16.3	14.1	13.2	15.3
January:							
Rain	1.61	0.35	0.33	0.47	0.00	0.55	0.92
Snow	24.0	20.9	14.1	7.5	20.1	17.3	19.0
February:							
Rain	0.09	0.11	0.89	0.21	0.00	0.26	0.72
Snow	20.9	12.9	16.2	13.3	14.8	15.6	15.9
March:							
Rain	0.58	0.80	1.21	3.01	1.28	1.38	1.18
Snow	5.4	18.1	8.0	4.4	7.3	8.7	10.5
Five months:							
Rain	6.48	2.98	4.90	7.20	3.24	4.96	6.04
Snow	63.1	71.2	62.9	51.6	63.5	62.5	68.0

The total amount of rainfall for the five months was 6.48 inches, or 0.44 inch above the average for the forty-three years, 1882-1924.

The total amount of snowfall was 63.1 inches, or 4.9 inches below normal. January and February were above, while November, December and March were below their respective averages for the forty-three year period.

The rainfall for the six months, April-September, comprising what is regarded as the growing season for most crops, is given in the following table covering the last five years, 1920-1924, and the normal for the forty-three years, 1882-1924.

Months	1924	1923	1922	1921	1920	1920–1924	1882–1924
	in.	in.	in.	in.	in.	in.	in.
April	2.05	1.81	3.22	2.92	2.31	2.46	1.88
May	3.52	2.85	1.86	2.05	0.82	2.22	2.80
June	2.37	3.13	3.47	2.13	2.85	2.79	2.77
July	3.47	1.99	3.50	3.64	3.56	3.23	2.82
August	2.78	2.75	2.31	2.49	2.13	2.49	2.67
September	4.11	2.54	2.34	2.76	2.43	2.84	2.66
Total for six months	18.30	15.07	16.70	15.99	14.10	16.03	15.60

The rainfall for the six months, April-September, was 18.30 inches, or 3.23 inches greater than the previous year, and in comparison with the forty-three years it was 2.70 inches more. June was the only month which did not exceed average, being 0.40 inch below. Of the others, September was the highest, having an excess of 1.45 inches from normal.

STATISTICS OF FARM CROPS

Field Crops	Acres	Production	Bushels per acre	Market Value	
				Total	Per acre
		bush.	bush.	$	$ c.
Fall Wheat	722,366	21,396,621	29.6	28,646,679	39.66
Spring Wheat	101,401	1,948,853	19.2	2,669,773	26.33
Barley	439,177	14,570,403	33.2	11,970,808	27.26
Oats	2,891,990	114,249,129	39.5	61,899,999	21.40
Peas	130,989	2,456,164	18.8	3,712,042	28.34
Beans	52,047	856,860	16.5	1,958,602	37.63
Rye	126,641	2,299,545	18.2	2,471,369	19.51
Buckwheat	240,552	6,449,496	26.8	5,593,465	23.25
Flax	6,619	77,801	11.8	162,590	24.56
Corn (in the ear)	263,615	16,711,996	63.4	11,737,059	44.52
Potatoes	169,145	24,966,530	147.6	13,355,441	78.96
Carrots	2,128	402,446	189.0	68,416	32.15
Mangels	35,958	15,616,128	434.0	2,654,742	73.83
Turnips	70,110	32,547,607	464.0	5,533,093	78.92
Sugar Beets	36,080	13,346,456	371.0	2,272,570	62.99
Mixed Grains	645,622	26,403,332	40.9	18,231,508	28.24
		Tons	Tons		
Corn (for silo), green	403,060	3,977,017	9.87	17,896,577	44.40
Hay and Clover	3,545,856	5,615,238	1.58	61,283,373	17.28
Alfalfa	381,258	1,067,717	2.80	12,252,536	32.14

The acreages devoted to other crops in 1924 were as follows: Orchards, 229,708; small fruits, 27,315; summer fallow, 179,527; pasture (cleared), 3,317,532.

Tobacco.—It is estimated that 12,399 acres were grown in tobacco in 1924, yielding 14,525,471 pounds or 1,172 per acre. Of this Essex had 8,350 acres, 9,811,250 pounds or 1.175 per acre, and Kent had 3,513 acres, 4,275,321 pounds or 1,217 per acre.

Rape.—The estimate for 1924 was 20,149 acres, of which 5,680 are in Wellington, 2,541 in Grey, and 2,758 in Dufferin.

The following table gives the aggregate acreage and value at market prices of all field crops enumerated in the preceding table for the forty-three years 1882-1924. The first organized effort by the Province of Ontario to collect agricultural statistics was made in 1882.

Years	Acres	Value	Per acre
		$	$ c.
1924	10,264,614	264,370,642	25.76
1923	10,296,961	219,114,500	21.28
1922	10,258,613	223,342,150	21.77
1921	10,075,073	222,177,881	22.05
1920	10,108,272	367,608,619	36.37
1919	9,915,884	397,238,400	40.06
1918	9,992,825	363,909,778	36.42
1917	9,718,259	333,353,438	34.30
1916	9,548,876	223,748,948	23.43
1915	9,762,951	210,674,415	21.58
1914	9,621,444	199,152,945	20.70
1913	9,541,537	168,455,253	17.65
1912	9,574,474	185,790,341	19.40
1911	9,718,741	179,974,358	18.52
1910	9,725,684	175,115,742	18.01
1909	9,578,323	167,966,577	17.54
1908	9,621,683	164,077,282	17.05
1907	9,750,615	176,354,759	18.09
1906	8,962,925	144,570,075	16.13
1905	8,897,898	142,804,431	16.05
1904	8,673,525	134,304,690	15.48
1903	8,731,405	136,657,807	15.65
1902	8,677,988	146,421,171	16.87
1901	8,667,512	128,325,648	14.81
1900	8,794,953	114,758,761	13.05
1899	8,753,926	105,771,321	12.08
1898	8,835,272	110,528,947	12.51
1897	8,701,705	106,952,471	12.29
1896	8,511,444	88,900,135	10.44
1895	8,321,173	99,655,895	11.98
1894	8,227,153	94,055,392	11.43
1893	8,054,612	101,886,557	12.65
1892	8,080,206	110,562,493	13.68
1891	7,834,213	130,866,023	16.70
1890	7,912,297	114,382,305	14.46
1889	7,758,583	106,500,799	13.73
1888	7,616,350	124,244,503	16.31
1887	7,429,084	99,583,524	13.40
1886	7,403,281	104,001,865	14.05
1885	7,350,443	110,068,586	14.97
1884	7,203,958	120,615,798	16.74
1883	7,542,623	114,754,141	15.21
1882	7,125,223	136,939,533	19.22

No statistics of "mixed grains" were taken previous to 1907, when an acreage of 443,100 was estimated.

Ratios of Areas Under Crop.—The following table shows the number of acres under the various crops in 1923 and 1924 per 1,000 acres of cleared land, together with annual averages for various periods.

Year	Fall Wheat	Spring Wheat	Barley	Oats	Peas	Beans	Rye	Buckwheat	Corn	Potatoes	*Roots	Hay and Clover	Mixed Grains
1924	47.9	6.7	29.1	191.7	8.7	3.5	8.4	15.9	44.2	11.2	9.6	235.1	42.8
1923	47.6	7.4	30.1	197.1	7.8	2.7	8.2	15.3	46.2	10.9	8.3	238.9	43.1
Annual average:													
1912-1921	44.5	13.4	38.4	189.9	9.1	4.0	9.0	12.9	46.6	10.8	11.0	237.5	35.6
1902-1911	51.3	13.0	50.7	192.8	27.7	3.6	8.0	9.4	40.1	10.9	15.8	219.0	†33.1
1892-1901	73.2	28.0	39.2	180.2	60.5	4.1	10.1	10.3	35.5	12.9	15.6	198.2	.....
1882-1891	31.6	50.9	67.2	150.4	60.5	2.4	9.4	6.2	17.7	14.0	12.2	207.1	.....
1882-1924	50.2	23.4	46.5	181.3	35.0	3.5	9.1	10.3	36.9	12.0	14.1	220.2	‡35.8

*Mangels, turnips, carrots and sugar beets. †1907-1911. ‡1907-1924.

SPRING SEEDING AND VEGETATION

Field conditions in the spring were thus described in the May crop bulletin: "The growing season is said to be about two weeks later than usual. Owing to the cool weather prevailing during the greater part of the spring, and frequent rains, the full extent of sowing of grain has been hindered, except on high, light, or well drained soils. The land in the early part of the season worked very well except on heavy clays, although some fields are reported to have been "mudded in." When reports were sent in it was estimated that about 80 per cent. only of the grain crops had been sown. Several correspondents state that more corn and buckwheat will be put in to make up for the probable smaller acreage of spring grains. Some roots have been sown to a fair start. Cattle turned out to pasture have not found as much substance as usual in the grass and, owing to the frequent spring rains, some injury has been done to the saturated fields by the tramping of the grazing animals. The benefits of tile draining have been well proven this spring."

THE GRAIN CROPS

Fall Wheat.—"The area of fall wheat sown this season will be close upon that of a year ago," said the bulletin issued in December, 1923. "More likely would have been put in had the ground not been so dry and hard in the early fall. Seeding was successful as a rule, and the young wheat made a good, steady growth. Most of the crop was sown comparatively late to avoid the Hessian fly. Some was got in as early as the last week of August, and as late as the first week of October, but the bulk of the sowing was done during the second and third weeks of September. Most of the fields are vigorous looking, with a good top for entering the winter. Only scattering mention is made of the presence of the Hessian fly. Dawson's Golden Chaff is still the most popular variety."

The 1924 April bulletin had the following regarding the crop: "Reports in the late fall regarding the newly planted fall wheat were to the effect that the acreage was nearly equal to that of the previous year, that seeding had been on the whole successful, and that the crop was entering the winter in most excellent condition. The fields were well protected with snow during the greater part of the winter, and the spring weather so far has been favourable for the crop, except in some parts of the Lake Erie counties, or where the land was low-lying or poorly drained. There has been less 'heaving' reported than usual. Taken all together, the general outlook for fall wheat at the present time may be described as encouraging."

"Fall wheat wintered well," according to the May bulletin, "being heavily protected by snow for the greater part of the season, and comparatively little injury occurred from spring heaving. In some low-lying spots damage has been done by frequent rains in the latter part of April and to date in May. Very little fall wheat land has been plowed up, the few patchy spots in most cases having been sown with barley. Losses from Hessian fly, wireworm and other insects have been very small. Taking the crop as a whole, the present outlook is for about an average yield from a good acreage."

Speaking of fall wheat the August bulletin said: "This crop came through the winter in fine condition, generally speaking, owing to the good protection of snow practically all winter. Comparatively little wheat land was plowed up in the spring, a few thin patches being filled in with barley or other grain. The yield per acre will be over the average, and the sample, as a rule, is fully up to the standard weight per bushel, although odd mention is made of soft grain. The straw, as a rule, is in keeping with the general good quality of the crop. The weather was rather catchy at harvest, and while most of the crop was housed in good condition some reports have been made of sprouting in the stook. Considerable threshing was done in the field. Only a few complaints were made of the presence of the Hessian fly. Cutting extended from July 15th to August 12th."

The December bulletin said: "The average yield of fall wheat, as confirmed by the threshing, is 29.6 bushels per acre, which ranks second to the record average yield of the province in 1915, which was 30.5 bushels per acre. There were some reports of sprouting in the stook, but the bulk of the grain has been well up to or above the standard in weight. The straw also was of good length and quality. There were a few complaints of smut. Where tried in the northern districts this year, fall wheat has given very satisfactory results."

The New Fall Wheat.—The following was in the December bulletin: "The acreage of fall wheat sown this year will be fully up to the average. The late harvest threw planting somewhat later than usual, and while some of the crop was got in in August, and a small portion was put in in October, the bulk of the sowing was done between the 10th and the 20th of September. The seedbed was in excellent condition for that sown early, but the ground was rather dry for the late seed. The crop was needing rain, as correspondents wrote, especially on clay land. Odd mention only was made of injury from Hessian fly or wire worm. Dawson's Golden Chaff is the variety most largely grown, with O.A.C. 104 coming second."

Spring Wheat.—August reports were to the following effect: "Never a large acreage, the area of spring wheat has this season been further restricted by the wet, cold, and generally backward weather at seeding time. The crop, however, has done well in yield, and the quality of both grain and straw is

fair. Owing to the late seeding some spring wheat was sown with oats for mixed grain. Harvesting ranged from August 12th to the 21st."

The December bulletin said: "This crop is steadily decreasing in popularity, although for the last three years the yield per acre has been above the average."

Barley.—"Sown late like the other cereals this spring, barley nevertheless can be considered a fairly successful crop, both as regards yield per acre and quality," remarked the August bulletin. "Some of the grain was darkened by rain at harvesting, but that will not affect the actual feeding quality. The straw was of fair length. The crop was cut and gathered during the first two or three weeks of August."

The December bulletin said of barley: "This grain is well up to the other cereals in both average yield and quality. The straw also is a good length and quality."

Oats.—The August bulletin said of oats: "Judged by the area grown, this is the leading grain crop of the Province, the acreage being practically double that given to the other cereals for grain product. The early prospect for oats was poor, seeding being very backward and the growth slow at first. Later on the crop made more rapid advancement, and has turned out to have a good average yield of plump grain. Some smut and rust have been reported, but these are casual rather than general. As in the case of the other grains, occasional sprouting in the field occurred after cutting. Most of the straw was of good length and of fair quality. Harvesting began in the second week of August, and some fields remained to be cut as correspondents reported."

December returns were to the following effect: "Oats also has shown an improvement in threshing results over the August estimate, and both yield and quality are generally satisfactory, although wet weather at harvesting caused some sprouting in the field. A little smut and rust were reported. There was a good crop of straw of fairly good quality."

Rye.—"This crop is grown chiefly for cutting green or for turning under," said the August bulletin, "but where raised for grain it has turned out well this season, the grain being plump and the yield per acre above the average. The crop was cut early in August, and did not appear to be so injured by rain as were the other cereals at harvesting."

December reports were thus summarized: "Rye is well above the average in yield, and is of excellent quality, but the acreage is small compared with that of most of the other cereals."

Peas.—August reports regarding peas were not on the whole encouraging. Those grown for the canneries did not do relatively so well as the common field pea, although some favourable reports came in. Owing to the unusually wet season, many fields of peas ran to vine rather than to pod. Some complaints were also made of second growth and of injury from blight. Most of the field peas were yet to pull as correspondents reported.

The December bulletin said: "This crop is about an average in yield per acre. It did best on high land, as there was some second-growth on low spots. Peas are now grown more for canning and less as a feeding crop, and as a consequence more care is given to cultivation and general handling.

Buckwheat.—There has been a steady growth in the acreage of buckwheat for several years, and the high average yield this season is likely to enhance its popularity. While a few reports of injury from frost had been received, the general description of the quality ranged from good to excellent where the crop was not kept too long in the stook.

BEANS.—Fewer returns than usual were made in August regarding beans, but the general tenor of the reports was to the effect that the yield would be about an average per acre. Some claim that the crop did better on clay than on sandy soils. There were odd reports of rust and leaf spot. Harvesting was expected about the middle of September.

The December bulletin said: "The season was on the whole unfavourable for beans, but the crop turned out to be better than an average in yield per acre. There are some complaints of discoloration owing to excessive rains, although other reports speak most favourably of the quality of the crop."

CORN.—The following appeared in the August bulletin: "For a crop that received a severe early trial, corn may yet give a fair general return. Planting was so delayed as to cause much apprehension. Cool weather for a few weeks gave a poor start to the seed, and up to the middle of July the outlook was very discouraging to growers. Then came warmer weather, and frequent showers carried the plants along with a rush, although tasselling was about two weeks later than usual. When correspondents wrote, the feeling was expressed that the crop might yet be a fair one if frost did not come before the plants were ready for cutting. The July and August rains also hindered cultivation, and many fields are very weedy. Some smut was reported; also injury from the borer. The crop is likely to turn out better for the silo than for the crib."

The December bulletin said: "This crop was more or less handicapped by a late start, as the weather was wet and cold at the usual planting time. The late fall gave some compensation, but the condition of the crop at cutting was more uneven than for some years. Speaking generally, there was not the usual amount of cobbing, and there were some complaints of softness. Corn for ensilage did relatively better than that raised for shelling. Most of the former was got into the silo in fair condition, although some fields left too late were caught by frost. The presence of the borer was reported in Kent, Elgin, Norfolk, and Oxford, but this pest does not seem to have done so much injury as was feared."

HAY AND CLOVER

CLOVER.—"This crop has survived the winter in good general shape," said the April crop bulletin, "although it was more subject to heaving than were fall wheat and rye. New meadows look better than the older ones."

The May bulletin had the following: "Clover, like fall wheat, came through the winter in good shape, and although it has since been heaved a little more than the latter crop it has not suffered serious injury. Copious spring rains have given the fields a good start, although the weather has been rather cool for growth. The prospects at the time of reporting were for a good general return."

The crop was thus dealt with in the August bulletin: "The yield of hay and clover is close to that of the heavy crop of last year, but taken all together it is not of as excellent quality. The weather at cutting was very broken, and a considerable portion of the crop remained in the coils for many days, in some cases running into weeks. The harvesting of fall wheat also overlapped haying on many farms, the grain gathering generally getting right of way. In some cases lack of competent help also delayed the housing of hay. New fields did better than old meadows. But even with some discoloured hay, the crop on the whole is a most satisfactory one, and will help to carry cattle and other live stock nicely over the winter. Harvesting stretched from the 10th of July

to the end of the month, and in some cases even later, owing to the catchy midsummer weather."

According to reports for the December bulletin fall pastures were good until October, when drouth set in. "Red clover, except in a few favoured localities, was a failure for seed. Some correspondents complain that owing to frequent rains the plants went largely to hay rather than to head. It is also stated that frequent rains at the time of blossom were responsible for much of the poor yield, while others claim that the bees were not able to work on the bloom owing to the unusually cool and damp weather. The midge also did injury to the crop. The yield per acre is estimated at about half an average."

Alfalfa.—Alfalfa looked well in May, although some winter-killing on low land had been reported. An increased acreage was expected.

According to the August reports alfalfa did relatively better than clover, giving two good crops already, with the promise of a fair third cutting later on in many cases.

The December bulletin remarked: "This crop is steadily increasing in favour. It was very uneven where threshed for seed, varying in yield from poor to good, but doing relatively better than red clover. Some growers complain of injury from grasshoppers."

Alsike.—This crop came through the winter in fairly good form, although there were some complaints of heaving in the spring. The crop later on was injured by wet weather where grown for seed, but it did much better than red clover, as the yield per acre was about an average.

Sweet Clover.—The May bulletin stated: "Sweet clover has shown fair growth for the backward season, but it is going out of favour as a fodder crop, although it gives fair satisfaction for pasture and some use it as ensilage."

The December bulletin thus summed up conditions: "Sweet clover did well as a pasture crop, and also gave a good average yield of seed. Taken altogether, however, this legume is not nearly as much in favour as it was three or four years ago, as many farmers have grown shy of it as a fodder crop."

POTATOES AND FIELD ROOTS

Potatoes.—August reports concerning potatoes were most encouraging, both as regards yield and quality, although the tubers were maturing about a couple of weeks later than usual owing to late planting. So far but little rot or blight had been reported.

The December bulletin's reference to potatoes was not so encouraging: "The yield per acre is large, being the best in four years, and the quality is ranked high. Unfortunately, rot has appeared, and in some districts considerable loss has already occurred. The Green Mountain variety has suffered most from the disease, the Cobbler class being more immune."

Roots.—"All classes of roots have done fairly well," said the August bulletin, "although the wet weather made the rows unusually weedy. Turnips are said to be doing relatively better than mangels. Sugar beets are looking fairly well at this stage."

According to the latest reports received there was good open weather for harvesting all classes of roots, and most of these crops were got under cover under favourable conditions.

Of specific root crops the December bulletin said:

Turnips.—Reports concerning turnips are most encouraging as to yield, quality, and harvesting. Taking these three factors into consideration, the season might be reckoned as a turnip year.

Mangels.—Mangels were nearly an average in yield, were of fair quality, and were easily handled when housed.

Carrots.—This crop has now a comparatively small acreage. The yield was better than that of last year.

Sugar Beets.—This crop has increased considerably in acreage, and the yield per acre is almost an average. The beets are said to be showing up well under the sugar test. The open weather for harvesting and shipping was welcomed by growers.

MISCELLANEOUS

Flax.—This crop is much more restricted in area than formerly, as few flax mills are now operated in the Province. Some farmers grow flax mingled with oats or barley for mixed grain. The few reports received in August regarding the condition of the crop were favourable.

Tobacco.—The following appeared in the August bulletin: "Preparations were made for a full acreage in the tobacco-growing counties of the Lake Erie district, but a heavy frost around the 20th of May destroyed many of the young plants ready to be set out, and the ultimate planting was much below the usual. The weather of June was rather cool and wet for early growth, but the plants picked up later, made rapid advancement during the past month and may yet turn out to be a fair crop. In some places there was injury from hail."

Further reference was made to this crop in the December bulletin as follows: "Tobacco did not get a good start owing to spring frosts, but more favourable weather later on brought the crop along nicely until the wet and cool weather of September again dragged growth. Notwithstanding these drawbacks, the yield is estimated at about 80 per cent. of an average, but the quality is rated as fair."

Fall Plowing.—"The usual acreage of fall plowing was planned even though the season for this work had been shortened by the late harvest," said the December bulletin. "A good start was made in September, but the drouth of the following month rendered the ground so hard, especially on clays, that the work was almost suspended until rain fell after what was practically a dry period of nearly five weeks. When correspondents reported only about 70 per cent. of the intended plowing had been done. Considerable of the land remaining to be turned under was in sod."

Threshing and Marketing.—Threshing was almost completed when correspondents reported in the third week of November. "Considerable of this work is now done in the field while the crop is in the stook. More grain, especially wheat, has been marketed than is usual at this time of year, owing to the marked advance in prices over the rates prevailing for last season's crops. The comparatively low figures offered for beef cattle is discouraging to farmers and is one of the reasons why some are willing to part with grain rather than feed it and sell it on the hoof. However, most of the coarse grains will still be chopped and fed to live stock, and also some of the wheat."

Farm Improvements.—Considerable underdraining was done in some of the Lake Erie counties, but comparatively little elsewhere. About the usual amount of building and renovation of houses and barns is reported, and more of this work, as well as wire-fencing and other farm improvements would be done but for the high price of labour and material. Some correspondents report the instalment of electric lighting plants for homes and stables.

FRUIT

The following appeared in the April bulletin: "Fruit growers have suffered very little direct loss from winter weather conditions. But while no injury has been reported from ice-storms, cotton-tail rabbits and field mice have girdled a large number of young fruit trees owing to the great depth of snow, and have also damaged many fruit bushes in more counties in the Province than ever before. There are the usual complaints of many old orchards dying from San Jose Scale or from general neglect, while on the other hand several correspondents state that a greater interest is being taken in pruning, spraying, etc. Strawberries have come through the winter in good condition.

The May bulletin said: "Blossoming has been much delayed this season, which has been fortunate, as injury from spring frosts have been avoided. There is a fair promise of fruit, especially where orchards have been cared for, but considerable bridge-grafting will have to be done owing to injury to young fruit trees by rabbits during the winter. Judging by the remarks of correspondents, too many orchards are suffering from neglect, although some correspondents claim that more spraying material than usual is being purchased. Small fruits promised well at the time of reporting."

August reports were thus summarized: "All classes of fruit have been slow in ripening this season, and apples and peaches particularly have been late in coming upon the market.

"What are known as summer and early fall apples are in fairly good supply, but there is much scabby and wormy fruit. Some aver that owing to the frequent rains the spraying of orchards has not been so effective as in dryer seasons. The later and better sorts, such as the Spy and Baldwin, are, as usual, more or less light on the limb.

Pears have done relatively better than apples, both as to yield and quality.

"Early peaches were just reaching market as correspondents reported, about two weeks later than usual. The general yield of this fruit will be light. There are some complaints of leaf curl.

"Plums are reported to be from fair to good in yield and quality, although one correspondent speaks of his crop as rotting in clusters on the trees.

"Cherries have been the best fruit crop relatively, correspondents describing the yields as "very good," "abundant," etc. Speaking more specifically, it may be said that sour cherries were plentiful, but the sweet varieties were lighter in yield.

"Grapes set well and promise to be good in yield, but they will be much later than usual in ripening, and late varieties may have a close race with early frosts.

"Strawberries were heavy in yield, but wet weather at ripening made picking more unpleasant than usual, and there were more soft berries than was desirable. Raspberries were fair in yield, as frequent rains kept the berries plump, even for late picking."

The December bulletin had the following on fruit: "Orchards have suffered much from neglect but little from storms or other uncontrollable injury so far this season. There has been a surplus of summer and early fall apples, some of which could not find a sale, but good winter sorts are scarce. There are complaints of too much small and scabby fruit. Pears were a more satisfactory crop than apples both as to yield and quality. Peaches were fair in yield but were unusually late in ripening. The same may be said of grapes. The mosaic disease is seriously threatening raspberry plantations in many parts of the Province."

LIVE STOCK AND THE DAIRY

Live stock conditions were thus reviewed in the April bulletin: "With a good supply of hay and other coarse fodders on hand, live stock in most cases had a sufficiency of feed for wintering comfortably, and in most cases came through in fair general condition, considering that some of them were allowed to remain too late on the grass.

"Horses are said to be in sufficient number for the demand, although a few correspondents speak of them as being rather on the lean side for spring work. Prices for good draft horses are keeping up, but ordinary animals are selling cheaply. Less brood mares are being kept; consequently fewer colts are being raised, and good farm horses are likely to be in demand in a short time.

"Beef cattle are falling off in popularity, and also in numbers, as market prices have not been encouraging. Heavy cattle are not plentiful. On the other hand there is a growing interest in dairying in different sections of the Province, and good milch cows are keeping up in value.

"There is a decrease in the number of hogs on hand, owing, it is said, to lack of profit in swine raising. For this reason also many brood sows have been disposed of during the year. There are some complaints of spring litters coming in rather weak condition, but on the whole there is a clean bill of health for this and all other classes of farm animals. Young pigs are selling cheaper than for years—at from $5 to $10 a pair.

"More interest is being taken in sheep raising, owing to the good prices that have been paid for lambs, although there are many farms on which no sheep have been handled for years. However, there has been little change in the number of sheep kept, there being, if anything, fewer on hand. Ewes are lambing freely this spring, twins being common, with occasional triplets, and the youngsters are more or less vigorous as a rule."

The August bulletin stated: "Not for many years have pastures been so unfailing during summer, the frequent rains of that period keeping the fields more or less steadily green. A few correspondents speak of the grass being too soft for full nutriment, but the general opinion is that beef cattle made good flesh on it, and that dairy cows were able to keep up a more generous flow of milk than usual in July and August. All other classes of live stock are in good condition, but fewer hogs are on hand, as many farmers made a rather too free disposal of some of their brood sows when prices fell earlier in the year.

"There has been more work than usual for creameries and cheese factories during August; in fact, some correspondents state that the milk supply in some localities has exceeded the demand."

Live stock conditions were thus dealt with in the December bulletin: "Pastures were good until October, when dry weather prevailed and cattle in the field began to fall off in flesh. While some heavy export steers will be kept for winter feeding, there is not likely to be as much fattening done as usual, as grain is now worth more than last year, while the price of finished animals is not such as to encourage feeding. Cattle in poor condition are selling at low prices. Cutters and canners in some of the St. Lawrence dairy counties are going at from $10 to $12 each, while milch cows, chiefly springers, are bringing from $50 to $75. Taking the Province over, cattle are selling at from three cents to eight cents a pound; veal, five cents to eight cents a pound. Some correspondents are of opinion that too many calves are being vealed.

Sheep are doing well. A fair amount of marketing of lambs has been done at prices ranging from nine cents to eleven cents a pound. This class of live stock is finished for market much better than most of the beef animals are.

Hogs have been marketed steadily at from $8.50 to $10 a cwt., live weight. Some correspondents claim that owing to the high values prevailing for grains, some swine are now being sold at a small margin if not at actual loss to the raisers.

The December bulletin said of dairying: "This branch of agriculture is now being regarded as the mainstay of Ontario farming, although some correspondents consider that prices for milk are not as high as the cost of production would warrant. Some condensery prices are quoted as low as $1.60 a cwt. for 3.5 per cent. milk. Cream, however, is keeping up well in value. The flow of milk during September was good, but there was a marked falling off about the middle of October owing to the unusually dry weather prevailing nearly all that month. Butter appears to be steadily pushing ahead of cheese in popularity. More cream also is being shipped to towns and cities, some through creameries and some direct from the farm. The Holstein is the breed most favoured by Ontario milk producers, followed by the Shorthorn, Ayrshire, and Jersey."

Poultry.—The poultry industry is steadily growing in importance. Farmers are now giving more attention to the selection of breeds, to feeding and housing, and to the culling of flocks in order to improve the laying record. Some correspondents say that poultry on the farm are an uncertain investment, but the majority are of opinion that intelligent and careful handling of fowl is a paying proposition even at the present high price of grain, while also furnishing the farmer's home with choice food at cost. The profits in farm poultry are variously estimated at from $1 to $2.50 per hen and in a few cases even higher.

FODDER SUPPLIES

The April bulletin said: "Taking all together, there was a sufficiency of fodder for the wintering of live stock.

"Hay was on the whole plentiful, and was of excellent feeding quality. A good deal of it was sold for export from various parts of the Province, buyers paying from $8 to $11 a ton for it in the barn.

"Ensilage was not in such large supply as usual, but on the whole there was enough for actual needs. The quality was scarcely up to that of more recent years, as it was late in maturing.

"Straw was somewhat scarce for bedding in some localities, and was selling at about half the price of hay.

"On most farms there was enough grain for feeding and to spare, although in many cases it was more carefully handed out than usual, owing to the low prices obtained for live stock. Some western oats were brought in for feeding purposes in various localities, but there was not as much mill-feed purchased as in recent years."

The following appeared in the May bulletin: "The cool weather of April and the first three weeks of May, accompanied by frequent rains, have kept live stock some weeks later than usual off pastures, and as a result of the prolonged stabling there has been a heavy drain upon practically all classes of feeds. Fortunately there was a better supply of fodders than usual on hand, and most farmers will be able to pull through with careful handling until this year's crops are ready to be utilized. Ensilage has been pretty well used up, but there is a sufficiency of hay in most cases, notwithstanding heavier sales than usual during the winter and spring. Straw also held out well considering the long call on it. There is not much grain to spare, as oats were comparatively scarce to begin with."

The August bulletin had the following: "The prospects for winter feed are encouraging. There is already an assurance of plenty of grain, hay and straw, and roots also promise a good yield. Corn is more variable in condition, but if the standing crop escapes frost, there ought to be a fair supply of ensilage."

The December bulletin said: "In most districts there is a sufficiency of fodder to carry live stock through with careful feeding, although some of the hay and grain was impaired in feeding value by being caught by rainy weather when being harvested. Corn has not cobbed as well as usual, and some silos have been unfilled this year, although some correspondents speak of a surprising good quality of ensilage. The good yield of roots, and the abundance of good feeding quality of oat straw, will somewhat compensate for the deficiency in corn. Owing to more threshing being done in the field considerable straw has been burned or else spread on the fields to rot or be plowed in, although this part of the grain crop is being sold by others at from $4 to $5 a ton for bedding and feeding purposes. Hay is quoted at from $8 to $12 a ton in the older sections of the Province, and at from $16 to $18 in some of the northern districts. Concentrates are still high in value, some dairymen buying them at the following prices: Bran, from $30 to $32 a ton; shorts, $31 to $34; gluten meal, $40; oil cake, $50 to $55; screenings (recleaned), $30.

STATISTICS OF LIVE STOCK

The following table gives the number of horses, cattle, sheep, swine and poultry on hand in June of each year for the forty-three years 1882–1924.

Years	Horses	Cattle	Sheep	Swine	Poultry
	No.	No.	No.	No.	No.
1924	663,875	2,917,302	870,279	1,807,903	16,751,345
1923	673,371	2,838,087	907,673	1,734,734	15,203,384
1922	685,852	2,836,181	986,617	1,553,434	13,964,317
1921	694,237	2,890,113	1,081,828	1,563,807	11,458,206
1920	704,640	2,881,827	1,129,084	1,614,356	11,005,645
1919	719,569	2,927,191	1,101,740	1,695,487	11,705,809
1918	732,977	2,867,722	972,341	1,656,386	12,281,105
1917	765,873	2,827,609	956,986	1,664,639	13,606,292
1916	775,732	2,734,767	908,066	1,735,254	14,377,844
1915	779,131	2,674,746	908,095	1,769,295	14,273,091
1914	774,544	2,604,628	922,375	1,770,533	14,175,214
1913	751,726	2,628,845	996,155	1,618,734	13,511,383
1912	742,139	2,624,780	1,021,848	1,702,652	13,024,983
1911	737,916	2,593,205	1,040,245	1,744,983	12,942,293
1910	724,384	2,567,128	1,065,101	1,561,042	12,460,787
1909	728,308	2,668,584	1,130,667	1,551,187	12,086,580
1908	726,471	2,824,859	1,143,898	1,818,763	12,285,613
1907	725,666	2,926,236	1,106,083	2,049,666	13,428,076
1906	688,147	2,963,618	1,304,809	1,819,778	10,254,824
1905	672,781	2,889,503	1,324,153	1,906,460	9,738,493
1904	655,554	2,776,304	1,455,482	2,008,984	9,412,683
1903	639,581	2,674,261	1,642,627	1,977,386	9,683,573
1902	626,106	2,562,584	1,715,513	1,684,635	9,762,808
1901	620,343	2,507,620	1,761,799	1,491,885	9,745,236
1900	617,309	2,429,330	1,797,213	1,771,641	9,541,241
1899	615,524	2,318,355	1,772,604	1,971,070	9,344,024
1898	611,241	2,215,943	1,677,014	1,640,787	9,084,273
1897	813,670	2,182,326	1,690,350	1,284,963	8,435,341
1896	624,749	2,181,958	1,849,348	1,269,631	7,734,167
1895	647,696	2,150,103	2,022,735	1,299,072	7,752,840
1894	674,777	2,099,301	2,015,805	1,142,133	7,552,662
1893	685,187	2,057,882	1,935,938	1,012,022	7,114,436
1892	688,814	2,029,140	1,850,473	996,974	7,078,973
1891	678,459	1,978,815	1,693,751	1,156,316	7,006,090
1890	659,636	1,894,712	1,339,695	1,140,559	6,854,864
1889	618,795	1,891,899	1,344,180	835,469	6,304,298
1888	596,218	1,928,638	1,349,044	819,079	6,164,114
1887	575,361	1,948,264	1,396,161	832,817	6,438,361
1886	569,649	2,018,173	1,610,949	860,125	6,968,915
1885	558,809	1,976,480	1,755,605	822,262	6,336,805
1884	535,953	1,925,670	1,890,733	916,158	6,237,606
1883	560,133	1,828,613	1,868,784	906,727	5,847,344
1882	503,604	1,586,312	1,915,303	850,226	5,352,120

The following table gives the value of horses, cattle, sheep, swine and poultry on hand in June of each year for the forty-three years 1882-1924, except for the ten years 1882-1891 when farm live stock was valued in bulk.

Years	Horses	Cattle	Sheep	Swine	Poultry	Total
	$	$	$	$	$	$
1924	72,617,565	113,046,599	7,081,500	16,201,699	13,446,621	222,393,984
1923	74,542,351	109,467,066	6,597,087	19,018,668	12,401,083	222,026,255
1922	74,535,855	103,899,416	6,612,959	16,550,636	12,241,252	213,840,118
1921	75,680,750	103,861,565	8,207,564	19,205,488	11,168,318	218,123,685
1920	89,606,594	176,897,490	16,191,741	32,253,804	11,787,708	326,737,337
1919	92,823,683	184,041,594	18,128,240	33,263,051	11,351,364	339,607,932
1918	95,710,928	172,259,261	15,690,055	31,140,181	9,307,051	324,107,476
1917	99,439,558	150,309,828	9,946,030	21,464,366	8,517,195	289,676,977
1916	101,434,391	128,324,526	7,386,710	18,790,755	7,933,157	263,869,539
1915	107,982,037	115,363,336	6,403,907	17,562,726	7,670,326	254,982,332
1914	112,576,793	106,635,148	6,155,451	17,951,258	7,551,428	250,870,078
1913	113,240,047	95,759,022	6,242,672	15,393,192	6,956,952	237,591,885
1912	109,000,214	90,403,902	6,181,595	14,141,908	6,121,323	225,848,942
1911	103,373,206	84,634,962	6,213,021	14,593,917	5,905,318	214,720,424
1910	92,757,431	76,872,723	6,127,018	13,265,834	5,393,031	194,416,037
1909	87,682,689	75,247,197	6,262,493	11,141,135	4,411,386	184,747,900
1908	85,847,391	77,255,267	6,336,265	12,135,979	4,439,854	186,014,756
1907	85,041,144	79,485,780	5,928,325	14,174,502	4,854,381	189,484,132
1906	79,814,953	80,303,276	6,721,119	12,770,708	3,697,338	183,307,394
1905	73,911,177	76,764,482	6,191,774	12,280,667	3,335,660	172,483,760
1904	68,138,228	72,821,003	6,425,100	12,921,743	3,077,029	163,383,103
1903	61,811,456	69,289,924	7,228,498	13,023,743	2,973,646	154,327,267
1902	55,173,637	63,517,342	7,634,284	11,262,265	2,957,286	140,544,814
1901	50,038,465	59,527,119	7,772,793	9,298,712	2,859,172	129,496,261
1900	46,916,999	56,320,810	7,711,496	9,598,153	2,727,363	123,274,821
1899	42,713,557	52,938,500	7,315,729	10,180,338	2,658,321	115,806,445
1898	38,659,896	47,286,254	6,499,695	8,720,242	2,578,136	103,744,223
1897	36,111,805	42,683,557	6,003,194	6,533,210	2,318,038	93,649,804
1896	37,185,692	44,383,638	6,652,202	6,505,227	2,130,807	96,857,566
1895	40,283,754	46,708,017	7,708,442	7,101,211	2,156,623	103,958,047
1894	46,245,614	47,577,587	8,606,671	6,909,262	2,208,518	111,547,652
1893	50,527,472	47,718,025	9,016,118	6,622,129	2,187,158	116,070,902
1892	55,812,920	45,548,475	8,569,557	5,479,093	2,091,450	117,501,495
1891	.....	.....	.....	.....	.....	108,721,076
1890	.....	.....	.....	.....	.....	104,086,626
1889	.....	.....	.....	.....	.....	105,731,288
1888	.....	.....	.....	.....	.....	102,839,235
1887	.....	.....	.....	.....	.....	104,406,655
1886	.....	.....	.....	.....	.....	107,208,935
1885	.....	.....	.....	.....	.....	100,690,086
1884	.....	.....	.....	.....	.....	103,106,829
1883	.....	.....	.....	.....	.....	100,082,365
1882	.....	.....	.....	.....	.....	80,540,720

The values for the several classes of horses on hand June 15th, 1924, were as follows: Stallions, $1,154,510; mares, $39,413,694; geldings, $29,079,053; colts and fillies, $2,970,308.

The values for the several classes of cattle on hand were as follows: Bulls, $4,589,310; cows for milk purposes, $66,692,458; cows for beef purposes, $5,460,815; yearlings for milk purposes, $6,807,631; yearlings for beef purposes, $7,812,204; calves, $7,321,958; all other cattle, $14,362,223.

The values for sheep on hand were $4,017,886; lambs, $3,063,614.

The values for pigs saved from spring, $6,209,462; brood sows, $5,647,302; all other pigs, $4,344,935.

The values for the several classes of poultry on hand were as follows: Turkeys, $1,098,366; geese, $879,104; ducks, $477,162; other fowls, $10,991,989.

The following table gives the estimated values of the several classes of live stock sold or slaughtered in each year ending June 15, since 1892.

Years.	Horses.	Cattle.	Sheep.	Swine.	Poultry.	Total.
	$	$	$	$	$	$
1924	*	*	*	*	*	*
1923	5,854,847	31,391,619	4,591,893	38,745,130	8,157,644	88,741,133
1922	6,563,473	32,629,693	4,262,967	39,556,147	7,462,955	90,475,235
1921	8,606,379	37,509,685	3,878,796	39,409,466	7,618,519	97,022,845
1920	10,647,026	63,355,503	6,131,024	64,079,147	8,001,147	152,213,847
1919	10,811,664	65,655,072	6,126,881	59,879,582	7,254,051	149,727,250
1918	11,019,354	57,529,269	5,877,375	46,997,183	5,318,857	126,742,038
1917	11,442,831	52,893,615	4,240,803	41,609,181	4,554,451	114,740,881
1916	10,684,992	46,987,563	3,588,522	33,671,966	4,226,038	99,159,081
1915	11,003,822	43,678,233	3,289,701	31,628,772	4,161,695	93,762,223
1914	12,480,950	42,978,531	3,219,409	30,275,538	4,062,797	93,017,235
1913	15,507,939	38,751,801	3,163,752	28,378,651	3,848,973	89,651,116
1912	15,793,129	36,269,271	3,054,930	26,656,149	3,208,860	84,982,339
1911	15,616,714	34,065,248	2,839,888	25,318,455	2,835,085	80,675,390
1910	13,345,490	30,595,363	2,748,972	23,029,692	2,114,214	71,833,731
1909	9,825,476	28,513,187	2,767,635	21,407,549	1,951,076	64,464,923
1908	8,878,225	27,733,956	2,867,255	21,600,459	1,895,753	62,975,648
1907	*	*	*	*	*	*
1906	7,851,480	27,205,105	2,596,429	22,501,028	1,374,246	61,528,288
1905	7,419,783	25,871,468	2,584,209	22,202,233	1,300,353	59,378,046
1904	6,836,499	26,342,872	2,896,391	22,665,164	1,354,486	60,095,412
1903	6,448,523	25,867,813	3,074,393	22,532,862	1,407,340	59,330,931
1902	5,079,127	23,340,908	3,110,882	20,154,190	1,398,289	53,083,396
1901	4,347,582	20,286,963	3,103,513	17,548,490	1,305,555	46,592,103
1900	3,774,480	18,017,989	2,872,609	15,800,799	1,176,740	41,642,617
1899	3,204,006	17,303,426	2,629,201	14,157,394	1,162,991	38,457,018
1898	2,884,187	16,121,559	2,460,379	11,852,535	1,131,923	34,450,583
1897	2,700,479	13,350,223	2,538,171	10,080,812	1,083,914	29,753,599
1896	2,712,884	12,381,248	2,646,709	10,022,525	985,629	28,748,995
1895	2,616,391	13,272,127	2,484,612	10,067,667	860,334	29,301,131
1894	3,222,500	15,219,256	2,552,267	10,158,978	782,588	31,935,589
1893	4,004,524	16,671,021	2,784,288	10,296,828	753,695	34,510,356
1892	4,280,132	15,979,135	2,640,190	8,775,852	778,308	32,453,617

*Not taken owing to the adoption of a modified schedule in conference with the other Provinces.

VALUES PER HEAD OF LIVE STOCK AND POULTRY ON HAND

Live Stock	1924	1923	1922	1920	1915	1910	1905	1900
	$	$	$	$	$	$	$	$
Horses (all ages)...	109	111	109	127	139	128	110	76
Cattle:	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Milch Cows.....	55.41	55.24	52.68	85.84	60.83	40.76	35.06	31.01
Other Cattle....	27.05	25.14	24.25	44.67	32.18	22.43	21.29	17.93
Sheep and Lambs..	8.14	7.27	6.70	14.34	7.05	5.75	4.68	4.29
Swine (all ages)...	8.96	10.96	10.65	19.98	9.93	8.50	6.44	5.42
Poultry (all kinds):	.80	.82	.88	1.07	.54	.43	.34	.29

The values per head of the various classes on hand June 15th, 1924, were as follows:

Horses: Stallions, $314; mares, $114.45; geldings, $109.09; colts and fillies, $60.28.

Cattle: Bulls, $64.79; cows for beef purposes, $54.08; yearlings for milk purposes, $25.05; yearlings for beef purposes, $25.49; calves, $12.36; all other cattle, $38.68.

Sheep and lambs: Sheep, $9.12; lambs, $7.13.

Swine: Pigs saved from spring, $5.11; brood sows, $28.26; all other pigs, $11.07.

Poultry: Turkeys, $2.27; geese, $1.69; ducks, 85c; all other fowls, 72c.

FARM LABOUR AND WAGES

The April bulletin had the following to say of labour conditions on the farm: "More men are available for farm work than for some years, but experienced workers are as scarce as ever. Many farmers are trying to do without hiring men, however, saying that prices for farm products are so low that they cannot afford to pay for help. As a consequence too many farms are undermanned, and the owner, either alone or assisted by members of his family, is endeavouring to cover the job. In many cases farmers help and are helped out by exchanging work with neighbours. Domestic servants on the farm are almost impossible to procure. Married men hired by the year are not so much in favour as formerly."

The following rates of wages for harvest hands was quoted in the August bulletin: "There was no scarcity of help offering this season, but much of it was of doubtful quality. Many farmers have developed a method of helping one another out at rush times, and others are not cultivating more land than they can handle within the family. Harvest wages ranged as follows: By the day, with board, from $2 to $3, generally at $2.50 for a fair worker. By the month, with board, from $25 to $45, usually around $35 for men with ordinary experience."

The labour question was thus dealt with in the December bulletin: "The supply of farm labour this season has been more adequate than for many years, although in some quarters complaints were made of a scarcity of help during the harvest rush. There is no improvement claimed in the quality of the help offering. The usual exchange of work between neighbours continues to be a factor in helping the labour situation out in a time of rush. While some correspondents claim that the rate of wages is too high compared with the price paid for farm products, others admit that it would be difficult for the agricultural worker to live and save if his wages were reduced while the cost of living is so high. Domestic servants on the farm are difficult to procure."

TEMPERATURE OF 1924

TABLE I.—Showing for each month the highest, lowest, mean daily range and mean temperature at the principal stations in Ontario for 1924; also the annual mean for each station.

Months	Southampton	Chatham	London	Woodstock	Stoney Creek	Toronto	Lindsay	Beatrice	Ottawa	Montreal River
	°	°	°	°	°	°	°	°	°	°
January:										
Highest	40.0	45.0	43.0	43.5	44.0	43.2	40.1	39.0	44.5	38.0
Lowest	—10.6	— 8.0	— 9.0	— 8.5	— 5.0	— 6.2	—21.0	—34.0	—28.0	—47.0
Daily range	13.8	13.1	16.0	14.9	16.0	14.8	18.9	18.7	23.3	32.0
Monthly mean	20.6	21.5	20.6	19.5	23.4	23.4	16.2	12.5	12.7	— 1.4
February:										
Highest	34.0	44.0	40.0	35.2	38.0	38.8	36.6	34.0	36.5	42.0
Lowest	— 8.4	2.0	—13.0	—10.0	—13.0	— 2.0	—15.5	—20.0	—11.2	—32.0
Daily range	16.4	14.9	16.1	14.6	16.1	14.7	20.8	20.8	21.8	30.3
Monthly mean	16.5	24.8	20.0	18.5	20.3	20.2	12.4	11.3	11.4	2.7
March:										
Highest	46.5	54.0	52.0	45.5	50.0	50.8	50.2	49.0	55.5	49.0
Lowest	2.2	16.0	6.0	8.0	14.0	10.4	— 5.2	— 1.0	5.2	—13.0
Daily range	11.9	13.7	12.9	9.7	10.8	11.2	15.6	15.5	14.8	19.2
Monthly mean	28.0	33.4	30.3	28.4	31.7	31.6	27.5	26.1	30.6	23.8
April:										
Highest	59.5	73.0	68.0	65.0	70.0	66.2	70.8	68.0	74.0	73.0
Lowest	4.8	20.0	18.0	19.8	24.0	19.2	15.0	— 7.0	15.0	—20.0
Daily range	15.6	20.5	21.0	16.6	16.6	16.4	21.2	19.9	18.0	25.4
Monthly mean	38.7	46.4	43.5	42.0	43.3	42.8	40.5	37.2	41.6	35.4
May:										
Highest	70.0	83.0	71.0	67.5	70.0	69.5	68.1	69.0	71.0	73.0
Lowest	29.1	31.0	28.0	28.4	30.0	30.3	23.5	24.0	29.0	20.0
Daily range	16.6	21.8	21.0	17.5	16.6	17.1	20.5	20.4	18.2	26.4
Monthly mean	46.7	52.1	49.7	47.6	49.3	50.1	48.5	46.8	50.1	45.4
June:										
Highest	82.5	97.0	92.0	86.0	84.0	82.4	86.6	81.0	89.0	87.0
Lowest	38.1	40.0	39.0	39.5	35.0	39.4	33.8	31.0	39.0	30.0
Daily range	18.9	24.1	23.1	18.3	20.4	20.4	27.4	27.9	24.9	35.4
Monthly mean	58.2	66.0	64.0	61.9	61.7	62.9	61.8	59.0	64.3	56.6
July:										
Highest	86.5	94.0	90.0	84.0	91.0	88.2	89.6	85.0	88.5	91.0
Lowest	42.1	45.0	44.0	43.8	42.0	48.1	42.9	38.0	49.5	35.0
Daily range	17.4	25.0	22.7	18.6	22.2	20.8	25.2	25.0	23.2	30.8
Monthly mean	63.0	70.1	67.3	65.1	66.1	67.3	65.5	61.6	68.1	62.0
August:										
Highest	83.2	95.0	94.0	89.5	94.0	89.6	93.5	85.0	90.5	87.0
Lowest	45.2	45.0	40.0	41.0	45.0	47.7	42.0	37.0	44.5	33.0
Daily range	16.9	25.2	25.8	19.4	22.4	20.4	25.9	25.9	22.9	30.2
Monthly mean	62.6	65.1	66.6	64.2	66.5	66.9	64.4	60.4	67.5	60.6
September:										
Highest	76.0	88.0	83.0	76.0	83.0	81.4	79.6	73.0	82.0	80.0
Lowest	34.6	37.0	32.0	35.3	34.0	38.4	30.6	28.0	34.0	25.0
Daily range	17.2	20.5	20.1	16.2	19.2	17.0	22.4	21.2	21.6	26.6
Monthly mean	55.1	59.9	56.9	55.1	56.4	57.0	55.0	52.5	57.4	50.8
October:										
Highest	70.0	79.0	74.0	73.0	75.0	72.4	73.5	72.0	76.5	75.0
Lowest	30.6	28.0	26.0	26.0	27.0	31.0	25.7	24.0	28.5	19.0
Daily range	18.9	26.7	25.4	19.0	21.9	20.4	26.1	25.2	25.6	29.9
Monthly mean	49.6	55.1	51.2	49.5	50.0	50.6	48.7	46.0	49.5	48.9
November:										
Highest	67.5	72.0	68.0	65.1	70.0	68.3	67.6	66.0	68.5	56.0
Lowest	15.1	16.0	14.0	11.0	16.0	12.8	2.8	— 7.0	5.0	— 7.0
Daily range	12.9	13.5	14.5	13.5	16.0	14.4	18.1	15.5	15.1	16.0
Monthly mean	37.1	39.8	36.6	35.8	39.4	39.0	34.6	33.2	35.6	29.7
December:										
Highest	52.8	56.0	57.0	54.0	58.0	53.4	50.4	47.0	46.5	38.0
Lowest	1.2	— 8.0	— 9.0	— 6.0	— 2.0	— 2.0	—14.0	—26.0	—18.0	—35.5
Daily range	12.1	8.9	11.6	11.3	12.9	12.6	17.8	18.6	13.8	26.7
Monthly mean	20.9	24.5	21.8	20.8	24.6	23.9	16.8	13.0	15.0	4.6
Annual mean	41.4	46.5	44.1	42.4	44.4	44.6	41.0	38.3	42.0	34.9

AVERAGE TEMPERATURE FOR FORTY-THREE YEARS

TABLE II.—Showing for each month the monthly average for the highest, lowest, mean daily range and mean temperature at the principal stations in Ontario, derived from the forty-three years, 1882-1924; also the annual mean at each station for the same period.

Months	Southampton	Chatham	London	Woodstock	Stoney Creek	Toronto	Lindsay	Beatrice	Ottawa	Montreal River
	°	°	°	°	°	°	°	°	°	°
January:										
Highest	44.3	46.0	45.9	45.7	49.5	45.2	41.5	40.9	40.1	37.9
Lowest	— 7.1	— 7.9	— 9.3	—10.4	— 4.8	— 7.1	—20.1	—27.3	—21.4	—33.6
Daily range	14.4	12.2	15.2	15.9	14.5	14.5	18.1	20.5	18.0	23.6
Monthly mean	20.9	21.8	21.4	20.2	24.7	22.4	15.8	14.0	11.2	6.4
February:										
Highest	43.6	48.3	46.3	45.1	47.7	44.9	41.7	41.7	39.9	40.7
Lowest	—11.7	— 9.1	—10.8	—11.2	— 6.3	— 7.5	—18.1	—27.1	—20.5	—33.7
Daily range	16.8	13.9	16.8	16.6	15.4	15.4	19.6	22.2	18.9	23.8
Monthly mean	18.7	20.7	20.3	19.1	22.6	21.1	15.3	13.4	12.4	9.1
March:										
Highest	54.6	59.4	59.6	57.0	60.2	56.9	52.8	51.5	49.9	51.5
Lowest	— 2.2	0.9	0.6	— 0.1	5.6	4.4	— 6.5	—12.7	— 7.9	—22.4
Daily range	16.9	15.2	17.8	17.0	15.3	14.9	18.7	21.1	17.7	25.1
Monthly mean	27.2	30.4	30.1	28.4	32.5	30.0	25.7	23.8	24.4	20.6
April:										
Highest	72.3	76.9	76.1	74.1	76.6	71.1	74.1	71.3	73.5	72.9
Lowest	15.6	18.6	18.1	17.2	20.3	20.7	13.9	10.1	15.1	5.4
Daily range	17.6	18.3	20.8	19.9	17.4	16.8	21.1	21.2	19.3	24.0
Monthly mean	40.4	43.9	43.4	42.4	44.2	43.0	41.7	39.4	41.3	38.3
May:										
Highest	79.8	83.2	83.1	80.5	84.3	80.1	82.7	81.0	83.0	84.5
Lowest	28.4	29.7	29.3	29.1	32.9	32.0	27.8	26.5	31.1	19.6
Daily range	19.5	21.0	23.1	21.8	20.2	19.3	24.0	23.1	22.1	26.1
Monthly mean	51.0	55.4	55.3	53.6	54.6	54.0	53.9	52.2	54.9	51.8
June:										
Highest	85.2	89.2	89.2	86.6	91.1	87.7	88.9	86.7	88.1	89.9
Lowest	37.5	38.4	38.2	38.5	41.4	42.4	38.4	35.6	41.6	33.7
Daily range	19.9	22.0	23.6	22.4	21.3	20.4	24.9	24.4	21.6	27.1
Monthly mean	60.6	65.1	65.0	63.4	65.3	64.2	63.7	62.2	64.7	61.8
July:										
Highest	87.4	92.8	92.5	89.5	92.5	91.4	91.8	89.4	91.3	92.0
Lowest	44.0	44.4	44.2	44.6	48.2	48.9	44.1	42.5	48.2	40.4
Daily range	20.1	22.1	23.4	22.6	21.5	20.4	24.7	23.4	20.7	25.6
Monthly mean	66.3	69.6	69.4	67.7	71.2	69.3	68.1	66.6	68.9	65.7
August:										
Highest	86.0	91.0	91.1	88.4	93.1	89.2	90.0	87.8	88.9	88.5
Lowest	41.9	42.8	41.0	41.5	45.6	46.3	40.4	38.1	43.7	37.3
Daily range	18.1	21.2	23.7	23.4	21.4	21.9	24.4	23.1	20.9	24.4
Monthly mean	64.6	67.4	66.8	65.0	68.8	66.1	65.4	64.1	66.0	62.7
September:										
Highest	84.4	88.0	87.1	84.9	89.5	85.5	85.9	83.4	84.4	83.8
Lowest	34.5	34.8	32.2	32.2	36.2	36.8	31.7	30.4	33.4	29.3
Daily range	18.1	20.0	22.5	21.7	20.7	18.9	23.0	21.6	20.5	23.1
Monthly mean	59.2	61.5	60.7	59.1	62.5	60.6	58.4	57.5	58.3	55.5
October:										
Highest	74.2	76.5	76.2	74.3	77.6	73.7	74.3	72.3	72.0	73.2
Lowest	26.2	26.0	24.2	24.3	26.7	27.2	21.9	21.5	24.7	18.3
Daily range	16.2	17.3	20.3	19.1	19.0	16.6	19.9	19.0	17.6	19.6
Monthly mean	48.3	49.8	48.7	47.4	50.8	48.9	46.5	45.9	46.1	43.4
November:										
Highest	61.0	63.1	62.1	61.1	64.9	60.4	59.3	58.4	58.0	55.3
Lowest	14.8	14.7	13.7	12.4	17.6	16.0	6.7	6.7	7.8	— 0.1
Daily range	13.2	12.4	14.6	14.5	14.0	12.9	15.0	14.6	12.3	14.8
Monthly mean	36.8	37.6	36.9	35.7	39.4	37.7	33.8	33.2	32.7	29.4
December:										
Highest	49.4	49.8	52.8	49.4	53.7	49.1	45.7	45.0	43.2	43.3
Lowest	1.1	0.6	— 1.6	— 2.6	— 0.3	0.0	—12.5	—14.9	—14.9	24.8
Daily range	13.5	10.6	13.5	13.5	12.8	12.6	15.9	17.2	14.8	19.0
Monthly mean	26.7	26.8	26.6	25.2	29.1	27.5	21.4	20.4	17.8	14.0
Annual mean	43.4	45.8	45.4	43.9	47.2	45.4	42.5	41.0	41.6	38.2

RAIN AND SNOW

TABLE III.—Summary of the total fall of rain and snow, and the number of days on which rain and snow fell in Ontario during 1924, at stations reporting the whole year, and the average for the Province.

Stations	Rain		Snow		Stations	Rain		Snow	
	Inches	Days	Inches	Days		Inches	Days	Inches	Days
ALGOMA:					ONTARIO:				
Biscotasing	9.54	44	67.6	57	Oshawa	25.32	75	26.5	14
Kapuskasing	15.39	55	78.0	33	PARRY SOUND:				
Steep Hill Falls	21.30	78	191.3	55	Magnetawan	21.58	75	144.3	50
BRANT:					Parry Sound	20.40	79	183.5	75
Brantford	27.25	100	68.2	34	PEEL:				
Paris	30.20	93	77.8	36	Alton	28.84	83	70.3	49
BRUCE:					PERTH:				
Southampton	24.67	83	133.3	68	Stratford	29.23	94	100.3	53
Tobermory	17.71	47	97.0	37	PETERBOROUGH:				
Wiarton	25.73	59	219.0	50	Apsley	26.27	100	85.1	50
CARLETON:					Lakefield	23.14	84	60.3	23
Ottawa	23.96	96	103.3	51	Peterborough	22.86	92	81.7	49
DUNDAS:					PRINCE EDWARD:				
Morrisburg	26.56	68	88.5	47	Bloomfield	23.66	65	81.3	26
DURHAM:					RAINY RIVER:				
Orono	26.32	63	41.5	20	Fort Frances	17.41	73	35.1	30
ESSEX:					Kenora	14.14	34	58.0	21
Harrow	20.11	70	38.6	22	Mine Centre	19.18	80	46.0	58
Leamington	27.91	49	29.0	11	Sioux Lookout	10.82	47	49.6	29
FRONTENAC:					RENFREW:				
Kingston	29.31	102	35.0	42	Clontarf	19.50	73	75.2	36
GREY:					Pembroke	18.71	80	74.1	40
Eugenia	23.44	71	115.8	52	Renfrew	19.53	82	69.0	32
HALTON:					SIMCOE:				
Georgetown	23.43	53	43.4	23	Beeton	26.37	56	33.5	22
HASTINGS:					SUDBURY:				
Belleville	24.72	84	71.1	27	Chapleau	15.50	69	144.5	43
Queensboro'	26.10	89	100.0	23	Sudbury	18.09	68	80.2	41
HURON:					THUNDER BAY:				
Clinton	24.26	74	51.6	40	Kakabeka Falls	20.05	75	36.5	33
Goderich	26.46	90	80.8	34	Port Arthur	19.75	63	23.7	31
KENT:					Schreider	17.91	62	67.1	34
Chatham	24.84	58	47.5	16	VICTORIA:				
Ridgetown	26.02	68	29.8	15	Fenelon Falls	23.59	110	91.8	56
LANARK:					Lindsay	20.93	86	78.2	59
Dalhousie Lake	26.89	86	82.3	35	WATERLOO:				
LINCOLN:					Kitchener	22.68	87	101.3	47
Grimsby	30.19	91	31.5	14	WELLAND:				
St. Catharines	26.31	88	46.8	32	Welland	28.57	83	60.3	41
MIDDLESEX:					WELLINGTON:				
London	21.47	84	98.0	45	Guelph	26.43	77	66.0	28
Lucan	24.54	86	130.8	61	Mount Forest	26.53	83	123.8	65
MUSKOKA:					WENTWORTH:				
Beatrice	23.23	78	150.0	46	Stoney Creek	17.99	68	40.5	20
South Falls	24.11	68	132.3	55	YORK:				
NIPISSING:					Agincourt	27.31	95	64.8	41
Algonquin Park	17.27	69	110.9	59	Toronto	26.10	105	76.5	60
Iroquois Falls	15.56	79	91.5	58	Wexford	25.06	85	48.5	22
Montreal River	18.16	88	103.8	58					
NORFOLK:									
Port Dover	34.70	123	52.0	19	Average for the				
Simcoe	31.76	102	74.7	35	Province: 1924	23.18	77	75.0	40
NORTHUMBERLAND:					1923	22.43	76	74.5	39
Healy Falls	20.16	75	69.3	27	1922	22.63	60	63.2	49
OXFORD:					1882–1924	24.26	73	72.2	39
Woodstock	24.23	95	72.8	69					

RAIN AND SNOW

TABLE IV.—Monthly summary of inches of rain and snow in precipitation in the several districts in Ontario in 1924, also the average derived from the forty-three years, 1882-1924.

Months	West and Southwest		North and Northwest		Centre		East and Northeast		The Province	
	Rain	Snow	Rain	Snow	Rain	Snow	Rain	Snow	Rain	Snow
1924	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
January	2.02	24.9	0.08	25.7	2.18	17.2	2.15	28.4	1.61	24.0
February	0.24	24.4	0.00	13.6	0.12	22.9	0.01	22.7	0.09	20.9
March	0.94	6.5	0.15	8.3	0.60	2.3	0.62	4.5	0.58	5.4
April	1.69	3.0	1.36	5.7	2.53	2.8	2.61	4.7	2.05	4.1
May	4.45	S	1.86	1.6	4.28	0.1	3.51	0.1	3.52	0.4
June	3.17	.....	2.05	.....	2.20	.....	2.05	.....	2.37	.....
July	3.62	.....	3.37	.....	3.43	.....	3.45	.....	3.47	.....
August	2.42	.....	3.23	.....	2.95	.....	2.50	.....	2.78	.....
September	4.15	S	2.95	0.2	4.64	.....	4.72	.....	4.11	0.1
October	0.63	S	1.15	0.3	0.53	.....	0.49	.....	0.70	0.1
November	0.89	5.9	1.24	12.7	0.75	2.4	0.97	3.8	0.96	6.2
December	1.42	19.6	0.35	17.3	0.96	8.7	1.02	9.7	0.94	13.8
The year	25.64	84.3	17.79	85.4	25.17	56.4	24.10	73.9	23.18	75.0
1882–1924										
January	1.15	16.0	0.60	23.4	1.03	16.6	0.91	20.0	0.92	19.0
February	1.07	13.9	0.39	18.9	0.84	14.3	0.56	16.6	0.72	15.9
March	1.40	8.5	0.88	13.0	1.30	9.4	1.14	11.1	1.18	10.5
April	2.13	2.0	1.58	4.1	2.07	2.8	1.75	3.4	1.88	3.1
May	3.13	0.1	2.54	0.1	2.82	0.1	2.71	0.1	2.80	0.1
June	2.93	.....	2.64	.....	2.74	.....	2.78	.....	2.77	.....
July	2.71	.....	2.94	.....	2.82	.....	2.80	.....	2.82	.....
August	2.75	.....	2.85	.....	2.42	.....	2.64	.....	2.67	.....
September	2.65	.....	3.04	0.1	2.39	.....	2.57	S	2.66	S
October	2.70	0.7	2.83	2.2	2.53	0.5	2.50	0.9	2.64	1.1
November	2.19	5.2	1.77	11.6	1.92	5.0	1.78	7.3	1.92	7.3
December	2.05	14.2	0.79	20.9	1.21	11.7	1.08	14.2	1.28	15.2
The year	26.86	60.6	22.85	94.3	24.09	60.4	23.22	73.6	24.26	72.2

SUNSHINE

TABLE V.—Monthly summary of bright sunshine at the principal stations in Ontario for 1924, showing the number of hours the sun was above the horizon, the hours of registered sunshine, the total for the year, and the average derived from the forty-three years, 1882-1924.

Months	Sun above horizon	Woodstock	Toronto	Lindsay	Kingston	Ottawa	Average of five stations		
							1924	1923	1882–1924
1924	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January	285.7	56.4	61.4	45.0	72.6	94.6	66.0	70.9	.....
February	302.5	105.4	121.4	110.4	136.0	154.5	125.5	104.3	.....
March	369.9	107.7	142.1	129.9	141.4	151.0	134.4	139.4	.....
April	406.4	175.9	204.1	175.8	177.3	183.5	183.3	181.8	.....
May	461.1	205.9	200.3	163.5	180.4	209.7	192.0	271.5	.....
June	465.7	256.6	259.9	223.1	251.1	218.1	241.8	255.6	.....
July	470.9	306.3	311.9	249.9	301.9	276.9	289.4	270.4	.....
August	434.5	257.9	277.5	219.8	252.2	252.8	252.0	265.9	.....
September	376.3	168.2	189.2	137.5	146.2	145.4	157.3	166.5	.....
October	340.2	209.9	215.5	184.7	207.3	207.2	204.9	159.4	.....
November	286.9	79.8	112.6	82.0	95.5	85.9	91.2	72.7	.....
December	274.3	59.2	63.3	52.9	58.2	64.6	59.6	58.7	.....
The year	4,474.4	1,989.2	2,159.2	1,774.5	2,020.1	2,044.2	1,997.4	2,017.1	.....
1882–1924									
January	.....	66.3	78.7	75.4	79.3	89.5	.....	.....	77.8
February	.....	91.9	108.1	100.8	110.2	113.0	.....	.....	104.8
March	.....	126.8	154.3	145.5	146.6	154.0	.....	.....	145.4
April	.....	168.0	187.8	178.4	179.9	190.6	.....	.....	180.9
May	.....	213.8	224.9	207.4	209.3	213.6	.....	.....	213.8
June	.....	251.9	262.4	235.8	249.9	239.8	.....	.....	248.0
July	.....	275.2	285.1	252.8	272.0	259.9	.....	.....	269.0
August	.....	236.0	252.4	224.9	248.1	242.5	.....	.....	240.8
September	.....	177.6	207.7	183.6	183.8	176.1	.....	.....	185.8
October	.....	146.6	153.9	128.8	140.3	134.7	.....	.....	140.9
November	.....	76.0	83.2	69.9	79.2	82.4	.....	.....	78.1
December	.....	55.7	65.7	56.3	68.3	66.3	.....	.....	62.5
The year	.....	1,885.8	2,064.2	1,859.6	1,966.9	1,962.4	.....	.....	1,947.8

RURAL AREA ASSESSED

TABLE VI.—Showing by County Municipalities the rural area of Ontario as returned by Municipal Assessors for 1924, also the comparative totals for the Province of the five years, 1920–1924. Only townships under municipal organization are included.

Counties and Districts	Acres of assessed land	Acres cleared	Acres of woodland	Acres of slash land	Acres of swamp, marsh or waste land	Per cent. cleared
Algoma	334,100	65,051	215,553	23,100	30,396	19.47
Brant	215,453	179,241	10,077	15,767	10,368	83.19
Bruce	932,785	579,579	75,978	146,652	130,576	62.13
Carleton	561,452	385,376	64,880	76,528	34,668	68.64
*Cochrane	136,414	13,558	98,841	21,189	2,826	9.94
Dufferin	357,193	284,064	20,588	22,641	29,900	79.53
Dundas	236,431	184,392	20,239	28,300	3,500	77.99
Durham	370,085	309,751	19,163	8,394	32,777	83.70
Elgin	436,184	365,139	37,521	29,341	4,183	83.71
Essex	418,206	371,013	12,894	26,154	8,145	88.72
Frontenac	688,757	253,226	84,803	173,934	176,794	36.77
Glengarry	288,688	202,136	51,608	21,745	13,199	70.02
Grenville	269,692	184,955	31,427	17,091	36,219	68.58
Grey	1,066,860	714,285	100,390	99,913	152,272	66.95
Haldimand	281,942	246,787	25,098	8,503	1,554	87.53
Haliburton	590,100	50,106	405,525	67,175	67,294	8.49
Halton	224,788	174,993	16,301	27,253	6,241	77.85
Hastings	1,095,062	426,448	220,832	277,523	170,259	38.94
Huron	799,138	674,127	46,266	30,064	48,681	84.36
Kenora	84,920	8,794	19,524	38,699	17,903	10.36
Kent	569,402	493,015	20,987	40,863	14,537	86.58
Lambton	662,250	530,732	63,897	65,199	2,422	80.14
Lanark	668,449	337,774	170,449	38,590	121,636	50.53
Leeds	471,140	273,018	104,523	40,679	52,920	57.95
Lennox and Addington	446,234	257,453	101,002	38,204	49,575	57.69
Lincoln	190,500	165,389	13,692	9,830	1,589	86.82
Manitoulin	332,470	49,267	46,816	97,938	138,449	14.82
Middlesex	755,937	673,694	54,493	16,261	11,489	89.12
Muskoka	595,088	73,419	374,858	63,386	83,425	12.34
Nipissing	322,970	69,263	154,889	29,765	69,053	21.45
Norfolk	396,683	285,348	59,064	30,395	21,876	71.93
Northumberland	432,162	354,986	36,982	15,121	25,073	82.14
Ontario	508,270	386,242	23,998	54,785	43,245	75.99
Oxford	471,285	402,135	31,250	21,618	16,282	85.33
Parry Sound	658,943	93,880	356,870	114,600	93,593	14.25
Peel	287,619	263,923	8,454	6,621	8,621	91.76
Perth	518,947	460,928	29,344	21,044	7,631	88.82
Peterborough	582,413	264,811	132,282	114,914	70,406	45.47
Prescott	293,805	220,748	26,265	38,529	8,263	75.13
Prince Edward	235,233	198,963	18,007	3,755	14,508	84.58
Rainy River	350,530	48,107	175,503	67,736	59,184	13.72
Renfrew	1,076,769	397,353	397,163	176,607	105,646	36.90
Russell	249,907	166,067	13,742	66,954	3,144	66.45
Simcoe	965,962	690,596	78,763	142,595	54,008	71.49
Stormont	247,573	167,023	31,128	36,171	13,251	67.46
Sudbury	398,503	75,324	139,939	54,311	128,929	18.90
Thunder Bay	477,556	48,692	316,850	67,253	44,761	10.20
Timiskaming	300,149	67,716	78,446	114,518	39,469	22.56
Victoria	596,820	292,790	24,379	187,329	92,322	49.06
Waterloo	307,540	255,457	31,334	5,709	15,040	83.06
Welland	222,473	184,043	14,261	14,598	9,571	82.73
Wellington	627,306	506,246	31,772	20,684	68,604	80.70
Wentworth	267,969	213,195	13,340	14,390	27,044	79.56
York	533,930	444,772	24,728	30,109	34,321	83.30
The Province:						
1924	25,411,037	15,085,390	4,776,978	3,021,027	2,527,642	59.37
1923	25,353,517	15,054,463	4,783,230	2,943,975	2,571,849	59.38
1922	25,393,470	15,015,659	4,794,994	2,936,171	2,646,646	59.13
1921	25,266,826	15,011,254	4,836,196	2,859,357	2,560,019	59.41
1920	25,234,193	14,961,176	4,857,973	2,820,049	2,594,995	59.29

Statistics from Municipal Assessors are furnished by the Bureau of Municipal Affairs.
*Formerly in Timiskaming, in which District all other statistics of following tables are included.

FALL WHEAT AND SPRING WHEAT

TABLE VII.—Showing by County Municipalities of Ontario the area, produce and market value of Fall Wheat and Spring Wheat for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for various periods.

Counties and Districts	Fall Wheat				Spring Wheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	285	7,838	27.5	10,973	965	21,713	22.5	30,398
Brant	16,831	493,148	29.3	658,353	109	2,027	18.6	2,635
Bruce	25,080	855,228	34.1	1,149,426	381	8,458	22.2	10,902
Carleton	94	2,510	26.7	3,765	5,378	123,156	22.9	176,483
Dufferin	3,997	101,924	25.5	139,942	1,392	29,093	20.9	39,101
Dundas	160	4,320	27.0	6,117	901	18,380	20.4	27,570
Durham	8,355	261,512	31.3	358,010	6,154	116,926	19.0	154,342
Elgin	22,199	568,294	25.6	749,580	69	1,297	18.8	1,643
Essex	47,252	1,247,453	26.4	1,602,977	620	13,640	22.0	18,550
Frontenac	612	14,688	24.0	20,666	1,210	21,054	17.4	29,181
Glengarry	122	3,050	25.0	4,423	2,799	54,860	19.6	77,791
Grenville	26	621	23.9	823	353	6,954	19.7	10,431
Grey	25,158	850,340	33.8	1,199,830	1,636	35,828	21.9	50,589
Haldimand	19,358	487,822	25.2	638,071	721	14,348	19.9	18,652
Haliburton	5	100	20.0	130	10	120	12.0	156
Halton	9,055	252,635	27.9	347,878	966	18,354	19.0	24,411
Hastings	4,885	142,642	29.2	185,435	940	18,048	19.2	25,051
Huron	31,745	1,085,679	34.2	1,480,866	580	13,340	23.0	17,876
Kent	76,971	2,162,885	28.1	2,885,289	851	20,850	24.5	26,063
Lambton	53,669	1,567,135	29.2	2,060,783	290	5,220	18.0	6,525
Lanark	313	8,701	27.8	12,033	5,967	119,937	20.1	164,913
Leeds	582	16,878	29.0	23,393	698	14,449	20.7	20,431
Lennox & Add'gton	1,251	29,774	23.8	39,272	1,728	35,770	20.7	48,933
Lincoln	15,978	378,679	23.7	493,040	70	1,225	17.5	1,593
Manitoulin	886	27,820	31.4	35,164	741	17,043	23.0	21,542
Middlesex	49,924	1,442,804	28.9	1,943,457	90	1,620	18.0	2,106
Muskoka	4	66	16.5	83	62	1,228	19.8	1,689
Nipissing	.....	.....	.....	.....	414	7,286	17.6	10,047
Norfolk	18,141	435,384	24.0	567,305	37	666	18.0	833
Northumberland	13,768	444,706	32.3	584,788	4,022	80,842	20.1	102,103
Ontario	17,174	585,633	34.1	778,306	5,060	114,356	22.6	146,147
Oxford	26,515	806,056	30.4	1,066,412	50	1,165	23.3	1,515
Parry Sound	16	320	20.0	448	194	3,822	19.7	5,274
Peel	10,511	293,257	27.9	394,724	1,849	39,938	21.6	53,357
Perth	26,862	870,329	32.4	1,139,261	34	738	21.7	933
Peterborough	11,743	355,813	30.3	480,348	3,872	75,117	19.4	98,554
Prescott	95	2,375	25.0	3,325	2,118	36,853	17.4	55,280
Prince Edward	4,954	128,804	26.0	169,120	756	12,474	16.5	15,842
Rainy R. & Kenora	206	6,324	30.7	9,012	688	16,925	24.6	23,847
Renfrew	332	8,599	25.9	12,434	28,912	442,354	15.3	623,719
Russell	76	1,824	24.0	2,736	1,963	42,008	21.4	59,735
Simcoe	70,532	2,158,279	30.6	2,954,684	1,634	31,700	19.4	42,161
Stormont	141	3,990	28.3	5,786	627	13,481	21.5	20,222
Sudbury	145	2,509	17.3	3,344	1,628	35,165	21.6	50,110
Thunder Bay	67	1,313	19.6	1,970	617	11,723	19.0	17,585
Timis. & Cochrane	123	2,694	21.9	3,772	2,302	58,241	25.3	84,216
Victoria	12,965	398,026	30.7	550,868	4,255	87,228	20.5	116,100
Waterloo	19,016	659,855	34.7	883,546	60	1,200	20.0	1,560
Welland	18,782	401,935	21.4	555,474	81	1,353	16.7	1,759
Wellington	7,710	256,743	33.3	363,548	652	14,344	22.0	19,508
Wentworth	13,580	359,870	26.5	467,111	152	2,964	19.5	3,655
York	34,115	1,197,437	35.1	1,598,578	3,743	81,972	21.9	106,154
The Province:								
1924	722,366	21,396,621	29.6	28,646,679	101,401	1,948,853	19.2	2,669,773
1923	717,307	16,599,067	23.1	15,976,322	111,601	1,937,937	17.4	1,865,540
Annual Averages								
1912–1921	656,001	15,264,886	23.3	22,062,175	198,052	3,609,481	18.2	6,193,730
1902–1911	720,272	16,912,017	23.5	14,142,444	182,335	2,269,976	17.9	2,655,591
1892–1901	930,794	18,688,313	20.1	12,650,091	356,355	5,405,846	15.2	3,650,840
1882–1891	902,846	18,059,235	20.0	16,250,884	563,547	8,882,998	15.8	7,959,306
1882–1924	798,901	17,321,701	21.7	16,611,527	310,235	5,062,077	16.3	4,914,827

OATS AND BARLEY

TABLE VIII.—Showing by County Municipalities of Ontario the area, produce and market value of Oats and Barley for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for various periods.

Counties and Districts	Oats				Barley			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	15,641	661,614	42.3	375,135	1,262	42,151	33.4	35,196
Brant	30,902	1,211,358	39.2	625,061	5,858	184,527	31.5	145,038
Bruce	114,046	4,744,314	41.6	2,481,276	14,792	516,241	34.9	401,119
Carleton	87,667	3,208,612	36.6	1,822,492	9,280	322,016	34.7	260,189
Dufferin	67,213	2,580,979	38.4	1,336,947	15,438	507,910	32.9	424,105
Dundas	24,480	866,592	35.4	527,755	6,422	211,926	33.0	181,621
Durham	51,805	1,890,883	36.5	1,030,531	6,589	200,965	30.5	168,007
Elgin	58,753	2,526,379	43.0	1,361,718	6,178	214,377	34.7	167,857
Essex	75,612	3,568,886	47.2	1,730,910	4,807	180,263	37.5	149,979
Frontenac	42,968	1,349,195	31.4	812,215	3,608	97,055	26.9	84,826
Glengarry	44,353	1,516,873	34.2	808,493	5,823	179,931	30.9	154,561
Grenville	35,876	1,237,722	34.5	737,682	2,755	87,885	31.9	78,481
Grey	159,131	6,428,892	40.4	3,388,026	25,164	903,388	35.9	724,517
Haldimand	40,943	1,543,551	37.7	788,755	6,577	207,176	31.5	157,661
Haliburton	8,558	274,712	32.1	168,673	546	13,759	25.2	11,585
Halton	31,040	1,278,848	41.2	740,453	6,614	214,294	32.4	183,221
Hastings	93,777	3,282,195	35.0	1,933,213	18,570	545,958	29.4	478,805
Huron	135,089	6,146,550	45.5	3,208,499	20,332	782,782	38.5	647,361
Kent	79,994	3,887,708	48.6	1,901,089	10,683	383,520	35.9	309,117
Lambton	89,544	4,083,206	45.6	2,004,854	8,141	295,518	36.3	218,683
Lanark	50,691	1,769,116	34.9	1,061,470	6,713	213,473	31.8	185,722
Leeds	50,965	1,824,547	35.8	1,102,026	4,864	138,138	28.4	123,357
Lennox & Add'gton	45,274	1,525,734	33.7	852,885	8,212	247,181	30.1	206,890
Lincoln	23,045	889,537	38.6	496,362	2,323	79,911	34.4	67,045
Manitoulin	7,492	313,915	41.9	149,737	1,053	37,908	36.0	28,507
Middlesex	117,015	5,347,586	45.7	2,791,440	9,082	336,942	37.1	269,891
Muskoka	14,448	518,683	35.9	338,181	340	9,214	27.1	7,989
Nipissing	19,864	681,335	34.3	419,702	1,004	27,008	26.9	22,822
Norfolk	43,907	1,497,229	34.1	786,045	3,114	92,486	29.7	71,584
Northumberland	67,144	2,437,327	36.3	1,377,090	8,453	246,828	29.2	198,450
Ontario	68,905	2,976,696	43.2	1,586,579	15,476	516,898	33.4	427,475
Oxford	70,901	3,211,815	45.3	1,785,769	9,319	358,782	38.5	288,102
Parry Sound	20,797	759,091	36.5	480,505	988	29,245	29.6	25,853
Peel	49,543	1,634,919	33.0	907,380	16,897	457,909	27.1	391,970
Perth	97,886	4,385,293	44.8	2,249,655	21,619	838,817	38.8	662,665
Peterborough	58,259	1,852,636	31.8	1,035,624	7,622	195,885	25.7	165,131
Prescott	51,178	1,642,814	32.1	893,691	5,672	161,085	28.4	136,600
Prince Edward	26,920	845,288	31.4	468,290	10,113	266,983	26.4	218,926
Rainy R. & Kenora	9,692	450,678	46.5	267,703	2,154	77,329	35.9	61,863
Renfrew	77,450	2,261,540	29.2	1,298,124	4,372	111,049	25.4	87,618
Russell	37,293	1,394,758	37.4	733,643	4,624	138,258	29.9	110,606
Simcoe	142,371	5,381,624	37.8	2,776,918	34,866	1,147,091	32.9	931,438
Stormont	30,016	1,128,602	37.6	707,633	3,534	112,381	31.8	101,143
Sudbury	16,851	741,444	44.0	404,087	745	26,820	36.0	23,977
Thunder Bay	8,368	287,022	34.3	165,899	677	19,904	29.4	15,525
Timis. & Cochrane	15,279	669,220	43.8	384,802	1,324	50,047	37.8	39,787
Victoria	65,633	2,316,845	35.3	1,207,076	11,209	339,633	30.3	284,273
Waterloo	56,045	2,421,144	43.2	1,416,369	7,950	290,970	36.6	239,468
Welland	26,589	946,568	35.6	527,238	1,548	50,155	32.4	41,578
Wellington	106,423	4,512,335	42.4	2,481,784	21,654	783,875	36.2	658,455
Wentworth	40,726	1,584,241	38.9	869,748	5,382	169,533	31.5	139,526
York	87,628	3,750,478	42.8	2,092,767	26,835	907,023	33.8	754,643
The Province:								
1924	2,891,990	114,249,129	39.5	61,899,999	439,177	14,570,403	33.2	11,970,808
1923	2,967,417	103,485,442	34.9	46,937,124	452,490	13,523,349	29.9	8,487,609
Annual Averages:								
1912–1921	2,797,677	101,507,145	36.3	59,392,491	565,811	17,044,596	30.1	14,650,272
1902–1911	2,703,900	98,968,442	36.6	36,309,289	711,199	21,709,056	30.5	10,870,736
1892–1901	2,291,902	79,229,462	34.6	22,119,649	498,932	13,100,823	26.3	5,037,346
1882–1891	1,663,205	58,410,603	35.1	21,017,492	743,245	19,349,351	26.0	10,547,091
1882–1924	2,406,054	86,393,597	35.9	35,990,150	616,685	17,537,298	28.4	10,234,294

PEAS AND BEANS

TABLE IX.—Showing by County Municipalities of Ontario the area, produce and market value of Peas and Beans for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for various periods.

Counties and Districts	Peas				Beans			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	577	11,655	20.2	18,427	28	280	10.0	560
Brant	612	11,077	18.1	16,339	306	5,783	18.9	13,359
Bruce	8,038	165,583	20.6	234,134	121	2,178	18.0	5,118
Carleton	974	19,577	20.1	35,434	326	5,151	15.8	14,423
Dufferin	3,587	59,903	16.7	84,883	26	338	13.0	676
Dundas	72	1,346	18.7	1,992	135	2,187	16.2	5,752
Durham	11,366	155,714	13.7	239,488	577	8,020	13.9	18,286
Elgin	1,114	23,394	21.0	28,541	10,615	167,717	15.8	368,977
Essex	357	7,497	21.0	11,995	413	5,658	13.7	13,579
Frontenac	179	3,616	20.2	5,822	216	3,240	15.0	8,424
Glengarry	287	5,223	18.2	9,140	140	2,520	18.0	6,174
Grenville	92	1,766	19.2	3,002	87	1,453	16.7	3,487
Grey	9,306	182,398	19.6	271,773	192	2,880	15.0	7,200
Haldimand	708	11,611	16.4	15,559	130	2,262	17.4	6,221
Haliburton	127	2,045	16.1	3,068	12	180	15.0	360
Halton	732	12,737	17.4	18,927	96	1,248	13.0	2,970
Hastings	1,138	19,574	17.2	34,020	331	5,759	17.4	15,377
Huron	6,954	158,551	22.8	235,924	9,382	165,123	17.6	374,829
Kent	885	17,700	20.0	27,612	21,081	352,053	16.7	792,119
Lambton	656	14,432	22.0	21,763	422	8,778	20.8	19,575
Lanark	1,145	21,984	19.2	36,647	302	4,258	14.1	12,135
Leeds	170	3,179	18.7	5,563	209	3,762	18.0	9,405
Lennox & Add'gton	456	8,710	19.1	13,178	118	1,864	15.8	4,735
Lincoln	216	3,888	18.0	6,155	252	3,830	15.2	11,490
Manitoulin	1,559	26,035	16.7	37,282	20	200	10.0	400
Middlesex	2,278	50,116	22.0	76,778	1,222	22,485	18.4	52,165
Muskoka	405	8,222	20.3	13,122	19	304	16.0	760
Nipissing	661	11,634	17.6	19,371	8	80	10.0	200
Norfolk	1,779	31,666	17.8	47,499	793	12,133	15.3	28,877
Northumberland	4,024	68,408	17.0	93,651	502	7,530	15.0	16,566
Ontario	6,233	132,763	21.3	195,693	165	1,848	11.2	4,158
Oxford	1,100	24,090	21.9	35,171	138	2,484	18.0	5,837
Parry Sound	869	17,380	20.0	29,372	6	60	10.0	144
Peel	1,535	30,700	20.0	42,090	39	390	10.0	936
Perth	4,325	99,043	22.9	140,344	283	3,962	14.0	7,924
Peterborough	4,510	51,865	11.5	82,465	130	2,080	16.0	4,784
Prescott	347	5,760	16.6	9,602	417	6,505	15.6	16,913
Prince Edward	7,686	124,513	16.2	201,088	301	4,726	15.7	11,106
Rainy R. & Kenora	273	5,788	21.2	11,171	34	340	10.0	850
Renfrew	12,507	187,605	15.0	326,433	463	6,899	14.9	17,316
Russell	281	5,114	18.2	10,228	120	2,040	17.0	5,304
Simcoe	10,850	245,210	22.6	358,987	219	4,380	20.0	10,950
Stormont	102	1,856	18.2	3,267	115	1,898	16.5	4,555
Sudbury	1,450	26,680	18.4	40,020	.....	.....	....	.....
Thunder Bay	271	6,125	22.6	9,984	.....	.....	....	.....
Timis. & Cochrane	1,677	44,273	26.4	73,892	23	230	10.0	460
Victoria	5,603	104,216	18.6	156,949	99	1,327	13.4	3,318
Waterloo	1,368	29,002	21.2	42,836	40	600	15.0	1,350
Welland	133	2,394	18.0	3,651	712	9,683	13.6	29,049
Wellington	5,128	106,662	20.8	149,433	74	888	12.0	1,776
Wentworth	714	13,709	19.2	18,850	148	1,766	12.0	5,298
York	3,573	72,175	20.2	103,427	440	5,500	12.5	12,375
The Province:								
1924	130,989	2,456,164	18.8	3,712,042	52,047	856,860	16.5	1,958,602
1923	117,409	2,030,850	17.3	2,940,685	41,127	633,713	15.4	1,538,701
Annual Averages:								
1912–1921	134,576	2,203,352	16.4	3,797,312	58,729	806,805	13.7	2,866,760
1902–1911	389,104	7,056,642	18.1	5,275,196	50,006	854,999	17.1	1,263,012
1892–1901	769,819	14,242,404	18.5	7,613,480	51,654	875,597	17.0	818,381
1882–1891	668,962	13,908,658	20.8	8,573,501	26,201	469,393	17.9	545,087
1882–1924	464,617	8,852,896	19.1	6,096,799	46,490	748,402	16.1	1,395,564

RYE AND BUCKWHEAT

TABLE X.—Showing by County Municipalities of Ontario the area, produce and market value of Rye and Buckwheat for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for various periods.

Counties and Districts	Rye				Buckwheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	134	2,345	17.5	2,345	75	1,688	22.5	1,334
Brant	4,521	94,037	20.8	98,551	4,691	116,337	24.8	101,911
Bruce	267	5,020	18.8	5,211	6,970	179,826	25.8	153,751
Carleton	360	7,344	20.4	7,528	6,772	166,591	24.6	145,767
Dufferin	4,627	86,525	18.7	94,485	4,472	121,191	27.1	102,406
Dundas	50	875	17.5	980	2,735	74,119	27.1	68,338
Durham	12,892	199,826	15.5	221,008	9,023	246,328	27.3	211,349
Elgin	4,884	95,726	19.6	94,194	3,102	72,277	23.3	64,688
Essex	619	11,761	19.0	12,702	1,114	29,410	26.4	26,469
Frontenac	1,352	22,308	16.5	23,245	1,493	39,415	26.4	36,656
Glengarry	.....	.....	.....	.....	1,678	47,823	28.5	42,754
Grenville	413	7,021	17.0	7,583	5,162	129,050	25.0	110,983
Grey	242	6,050	25.0	6,353	7,128	202,435	28.4	171,058
Haldimand	316	6,067	19.2	6,571	2,208	50,563	22.9	45,001
Haliburton	101	1,717	17.0	1,717	471	12,011	25.5	10,209
Halton	301	6,020	20.0	6,321	1,882	48,556	25.8	41,515
Hastings	5,977	111,172	18.6	122,512	9,524	263,815	27.7	241,655
Huron	304	5,837	19.2	6,030	10,731	253,252	23.6	228,433
Kent	2,142	46,481	21.7	50,014	1,059	23,722	22.4	21,801
Lambton	365	8,030	22.0	7,629	352	8,800	25.0	7,568
Lanark	1,362	22,064	16.2	23,829	5,937	154,362	26.0	130,745
Leeds	924	17,926	19.4	20,740	3,918	103,043	26.3	94,181
Lennox & Add'gton	1,838	31,430	17.1	33,662	5,228	146,907	28.1	132,657
Lincoln	139	2,808	20.2	3,066	600	16,560	27.6	15,036
Manitoulin	506	9,867	19.5	9,867	291	8,235	28.3	6,341
Middlesex	560	13,104	23.4	13,785	2,085	48,164	23.1	43,492
Muskoka	158	3,065	19.4	3,181	213	4,899	23.0	4,341
Nipissing	55	1,067	19.4	1,067	110	2,057	18.7	1,851
Norfolk	17,782	275,621	15.5	289,953	9,443	214,356	22.7	186,061
Northumberland	12,830	245,053	19.1	277,645	16,882	433,867	25.7	365,750
Ontario	7,351	144,080	19.6	158,488	14,418	438,307	30.4	368,616
Oxford	2,830	56,600	20.0	57,789	3,578	97,322	27.2	86,617
Parry Sound	102	2,111	20.7	2,322	89	2,350	26.4	2,075
Peel	2,230	39,471	17.7	41,208	2,895	70,638	24.4	59,972
Perth	90	1,908	21.2	2,022	3,903	103,820	26.6	87,728
Peterborough	4,440	71,928	16.2	75,740	5,716	144,615	25.3	121,043
Prescott	157	3,140	20.0	3,140	1,202	33,416	27.8	31,344
Prince Edward	5,091	78,911	15.5	84,593	8,897	246,447	27.7	211,452
Rainy R. & Kenora	173	4,515	26.1	4,741	17	425	25.0	340
Renfrew	8,493	142,682	16.8	145,250	3,724	80,811	21.7	65,699
Russell	.....	.....	.....	.....	1,343	36,395	27.1	31,809
Simcoe	9,598	201,558	21.0	223,729	20,623	602,192	29.2	504,637
Stormont	.....	.....	.....	.....	2,774	62,415	22.5	53,365
Sudbury	897	19,375	21.6	20,576	235	7,215	30.7	7,092
Thunder Bay	196	4,155	21.2	4,155	48	1,200	25.0	960
Timis. & Cochrane	30	699	23.3	707	116	2,784	24.0	2,506
Victoria	2,124	42,480	20.0	45,071	9,269	278,070	30.0	248,317
Waterloo	1,841	42,343	23.0	45,815	4,750	139,650	29.4	120,937
Welland	310	5,611	18.1	6,172	2,366	52,052	22.0	48,096
Wellington	435	9,266	21.3	9,924	11,575	319,470	27.6	277,619
Wentworth	671	12,749	19.0	13,960	3,477	78,928	22.7	70,877
York	3,561	69,796	19.6	74,193	14,188	431,315	30.4	378,263
The Province:								
1924	126,641	2,299,545	18.2	2,471,369	240,552	6,449,496	26.8	5,593,465
1923	123,354	2,011,325	16.3	1,481,691	230,276	5,012,010	21.8	3,670,511
Annual Averages:								
1912–1921	132,760	2,207,966	16.6	2,459,189	188,094	3,942,591	21.0	3,721,788
1902–1911	112,424	1,877,432	16.7	1,129,754	131,168	2,871,668	21.9	1,503,428
1892–1901	129,188	2,088,786	16.2	937,885	131,005	2,450,389	18.7	949,189
1882–1891	103,636	1,683,211	16.2	1,010,057	69,230	1,413,900	20.4	586,472
1882–1924	120,530	1,985,702	16.5	1,425,140	136,363	2,849,144	20.9	1,860,702

FLAX AND MIXED GRAINS

TABLE XI.—Showing by County Municipalities of Ontario the area, produce and market value of Flax and Mixed Grains for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for various periods.

Counties and Districts	Flax.				Mixed Grains.			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	5	40	8.0	60	860	35,862	41.7	26,000
Brant	7	70	10.0	105	11,224	450,082	40.1	316,858
Bruce	685	9,864	14.4	20,714	20,897	867,226	41.5	566,299
Carleton	15	189	12.6	378	12,149	479,886	39.5	342,159
Dufferin	107	1,070	10.0	2,140	17,950	721,590	40.2	454,602
Dundas	26	260	10.0	520	15,186	545,177	35.9	394,163
Durham	107	1,070	10.0	2,140	27,559	997,636	36.2	646,468
Elgin	.....	.....	.....	.....	10,819	461,971	42.7	333,543
Essex	1	6	6.0	9	3,285	147,825	45.0	112,347
Frontenac	14	140	10.0	280	3,945	125,846	31.9	104,452
Glengarry	.....	.....	.....	.....	1,982	70,956	35.8	54,423
Grenville	42	420	10.0	840	3,098	117,414	37.9	85,125
Grey	418	5,141	12.3	12,853	29,113	1,228,569	42.2	834,198
Haldimand	90	900	10.0	1,755	7,779	308,826	39.7	199,810
Haliburton	.....	.....	.....	.....	343	8,232	24.0	6,396
Halton	11	110	10.0	220	10,904	436,160	40.0	317,088
Hastings	109	1,090	10.0	2,180	9,365	339,950	36.3	265,161
Huron	2,003	23,635	11.8	51,288	34,648	1,597,273	46.1	1,027,047
Kent	1	6	6.0	9	8,590	395,140	46.0	297,936
Lambton	95	950	10.0	1,900	11,543	526,361	45.6	357,399
Lanark	83	1,245	15.0	2,490	7,724	251,030	32.5	184,256
Leeds	.....	.....	.....	.....	4,472	160,098	35.8	127,118
Lennox & Add'gton	27	162	6.0	324	6,496	206,573	31.8	144,188
Lincoln	.....	.....	.....	.....	2,872	116,890	40.7	80,187
Manitoulin	13	130	10.0	195	1,628	65,120	40.0	44,151
Middlesex	115	1,150	10.0	2,300	17,635	786,521	44.6	523,823
Muskoka	8	80	10.0	120	413	14,951	36.2	11,213
Nipissing	22	220	10.0	330	847	26,681	31.5	21,158
Norfolk	22	132	6.0	198	5,520	194,304	35.2	130,378
Northumberland	101	1,212	12.0	2,424	15,542	519,103	33.4	350,395
Ontario	145	1,668	11.5	3,336	36,886	1,597,164	43.3	1,094,057
Oxford	138	1,380	10.0	2,760	31,270	1,466,563	46.9	982,597
Parry Sound	10	100	10.0	150	939	32,114	34.2	24,888
Peel	48	480	10.0	960	14,666	479,578	32.7	363,041
Perth	428	6,420	15.0	12,840	28,779	1,318,078	45.8	842,252
Peterborough	26	260	10.0	520	6,326	185,352	29.3	134,380
Prescott	22	220	10.0	440	2,240	64,960	29.0	49,629
Prince Edward	223	2,230	10.0	4,460	4,353	132,767	30.5	95,194
Rainy R. & Kenora	98	1,470	15.0	2,940	179	7,411	41.4	5,706
Renfrew	144	1,541	10.7	3,082	4,354	122,347	28.1	93,106
Russell	60	600	10.0	1,200	4,851	164,934	34.0	123,701
Simcoe	182	1,456	8.0	2,912	35,047	1,408,889	40.2	1,011,582
Stormont	.....	.....	.....	.....	5,037	176,295	35.0	136,629
Sudbury	85	680	8.0	1,360	1,083	50,468	46.6	38,709
Thunder Bay	.....	.....	.....	.....	1,233	45,621	37.0	31,935
Timis. & Cochrane	50	300	6.0	450	735	31,899	43.4	23,478
Victoria	84	1,008	12.0	2,016	16,881	656,671	38.9	470,176
Waterloo	143	1,873	13.1	3,746	34,649	1,528,021	44.1	1,094,063
Welland	20	200	10.0	400	1,952	70,077	35.9	52,558
Wellington	477	5,533	11.6	11,066	55,641	2,364,743	42.5	1,572,554
Wentworth	.....	.....	.....	.....	16,494	666,358	40.4	446,460
York	109	1,090	10.0	2,180	37,639	1,629,769	43.3	1,186,472
The Province:								
1924	6,619	77,801	11.8	162,590	645,622	26,403,332	40.9	18,231,508
1923	6,766	68,684	10.2	140,376	648,934	23,880,889	36.8	14,290,315
Annual Averages:								
1912–1921	9,940	.....	.....	.....	524,500	19,031,019	36.3	15,645,948
1907–1911	10,652	.....	.....	.....	471,545	15,772,739	33.4	8,674,687
1907–1924	9,478	.....	.....	.....	524,982	18,929,366	36.1	13,568,712

No estimates of yields of flax were made previous to 1918. The average for the seven years, 1918–1924, was 10,881 acres, yielding 116,067 bushels, valued at $421,626.

CORN*

TABLE XII.—Showing by County Municipalities of Ontario the area, produce, and market value of Corn for husking and for fodder for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for the various periods.

Counties and Districts	Corn for Husking				Corn for Silo			
	Acres	Bushels (in the ear)	Per acre	Market value	Acres	Tons green	Per acre	Market value
				$				$
Algoma	115	3,450	30.0	2,760	582	4,947	8.50	22,261
Brant	3,730	25,439	68.2	18,113	8,834	88,340	10.00	397,530
Bruce	460	23,000	50.0	18,400	7,424	62,362	8.40	280,629
Carleton	998	39,920	40.0	35,928	18,642	219,416	11.77	987,372
Dufferin	73	3,650	50.0	2,555	672	5,376	8.00	24,192
Dundas	1,181	47,240	40.0	41,477	13,334	146,674	11.00	660,033
Durham	1,027	71,890	70.0	57,512	7,927	69,361	8.75	312,124
Elgin	16,645	1,115,215	67.0	853,139	18,253	133,612	7.32	601,254
Essex	78,868	4,952,910	62.8	3,234,250	6,311	58,377	9.25	262,696
Frontenac	1,346	67,300	50.0	48,456	5,360	55,262	10.31	248,679
Glengarry	826	33,040	40.0	26,432	6,562	68,573	10.45	308,578
Grenville	1,173	76,245	65.0	53,372	7,282	70,854	9.73	318,843
Grey	555	22,200	40.0	17,760	8,804	80,028	9.09	360,126
Haldimand	1,820	116,116	63.8	88,364	3,749	31,492	8.40	141,714
Haliburton	133	4,655	35.0	3,491	357	3,213	9.00	14,458
Halton	475	21,375	45.0	17,100	3,593	33,056	9.20	148,752
Hastings	3,694	188,394	51.0	150,715	10,347	95,606	9.24	430,227
Huron	1,117	55,850	50.0	44,680	9,301	96,079	10.33	432,356
Kent	64,798	4,574,739	70.6	3,133,696	11,035	78,790	7.14	354,555
Lambton	21,030	1,409,010	67.0	976,444	14,844	134,932	9.09	607,194
Lanark	1,055	52,750	50.0	47,475	10,440	114,840	11.00	516,780
Leeds	2,847	170,820	60.0	153,738	13,303	119,727	9.00	538,772
Lennox & Add'gton	2,417	120,850	50.0	87,012	5,738	55,085	9.60	247,882
Lincoln	2,945	198,788	67.5	133,188	5,262	55,988	10.64	251,946
Manitoulin	120	3,600	30.0	2,880	1,341	13,410	10.00	60,345
Middlesex	10,444	759,279	72.7	574,015	26,031	261,091	10.03	1,174,910
Muskoka	257	10,280	40.0	8,224	660	4,422	6.70	19,899
Nipissing	4	120	30.0	96	73	535	7.33	2,408
Norfolk	14,486	956,076	66.0	714,189	10,504	85,923	8.18	386,653
Northumberland	2,409	120,450	50.0	84,315	9,138	83,430	9.13	375,435
Ontario	930	46,500	50.0	30,969	12,582	125,191	9.95	563,360
Oxford	3,960	319,176	80.6	233,637	27,814	308,179	11.08	1,386,805
Parry Sound	62	2,480	40.0	1,984	333	2,441	7.33	10,985
Peel	487	24,350	50.0	17,045	4,661	42,741	9.17	192,335
Perth	475	28,500	60.0	21,375	10,552	121,770	11.54	547,965
Peterborough	500	15,000	30.0	13,500	6,692	73,612	11.00	331,254
Prescott	2,177	87,080	40.0	67,922	7,679	83,240	10.84	374,580
Prince Edward	5,356	267,800	50.0	187,460	4,914	47,027	9.57	211,621
Rainy R. & Kenora	182	3,640	20.0	2,912	330	1,650	5.00	7,425
Renfrew	1,066	42,640	40.0	32,406	6,590	59,310	9.00	266,895
Russell	683	23,905	35.0	16,734	7,568	80,221	10.60	360,995
Simcoe	1,230	52,890	43.0	42,312	10,476	98,893	9.44	445,018
Stormont	1,184	53,280	45.0	38,362	7,972	85,540	10.73	384,930
Sudbury	54	1,620	30.0	1,296	322	2,657	8.25	11,957
Thunder Bay	42	1,260	30.0	882	32	320	10.00	1,440
Timis. & Cochrane	2	60	30.0	48	45	540	12.00	2,430
Victoria	432	17,280	40.0	13,824	7,302	82,878	11.35	372,951
Waterloo	404	27,472	68.0	21,978	8,948	103,528	11.57	465,876
Welland	5,639	371,046	65.8	302,031	5,828	57,639	9.89	259,376
Wellington	217	10,850	50.0	8,138	7,633	68,697	9.00	309,137
Wentworth	794	42,876	54.0	30,356	8,140	81,400	10.00	366,300
York	691	27,640	40.0	22,112	10,944	118,742	10.85	534,339
The Province:								
1924	263,615	16,711,996	63.4	11,737,059	403,060	3,977,017	9.87	17,896,577
1923	285,335	19,292,244	67.6	9,710,461	409,628	3,651,102	8.91	14,604,408
Annual Averages:								
1912–1921	262,989	18,126,041	68.9	11,287,114	424,672	4,315,930	10.16	15,936,749
1902–1911	325,515	22,988,755	70.6	8,780,681	236,330	2,731,936	11.56	5,652,083
1892–1901	294,076	21,218,057	72.2	5,314,705	157,611	1,777,533	11.28	3,555,065
1892–1924	292,114	20,539,155	70.3	8,602,486	285,989	3,039,251	10.63	9,139,173

*The combined average area for corn for the ten years 1882–1891 was 195,878 acres, the average value of the produce for the same period being $3,704,614. The combined average for corn for the forty-three years, 1882–1924, is 489,213 acres, the average value of the produce for the same period being $14,477,230.

POTATOES AND TURNIPS

TABLE XIII.—Showing by County Municipalities of Ontario the area, produce, and market value of Potatoes and Turnips for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for various periods.

Counties and Districts	Potatoes				Turnips			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	1,333	260,868	195.7	155,216	362	103,170	285	17,539
Brant	2,942	394,228	134.0	227,470	2,201	1,137,917	517	193,446
Bruce	4,202	767,285	182.6	377,504	2,297	994,601	433	169,082
Carleton	5,499	884,239	160.8	514,627	890	301,710	339	51,291
Dufferin	5,222	877,818	168.1	344,105	1,958	930,050	475	158,108
Dundas	1,548	203,872	131.7	130,070	55	13,750	250	2,338
Durham	3,800	532,380	140.1	251,816	1,940	781,820	403	132,909
Elgin	3,074	450,034	146.4	281,721	150	51,900	346	8,823
Essex	2,446	242,399	99.1	160,468	68	27,200	400	4,624
Frontenac	3,398	491,691	144.7	259,613	155	40,920	264	6,956
Glengarry	1,878	264,422	140.8	161,562	141	49,350	350	8,390
Grenville	2,733	409,950	150.0	186,937	127	40,005	315	6,801
Grey	6,062	1,030,540	170.0	432,827	3,394	1,333,842	393	226,753
Haldimand	1,075	124,270	115.6	81,273	40	13,360	334	2,271
Haliburton	555	69,986	126.1	37,163	102	33,150	325	5,636
Halton	1,619	174,043	107.5	97,812	1,374	607,308	442	103,242
Hastings	5,297	795,080	150.1	398,335	788	239,552	304	40,724
Huron	3,929	668,323	170.1	334,830	3,582	1,615,482	451	274,632
Kent	3,864	607,034	157.1	339,332	50	20,000	400	3,400
Lambton	3,396	462,535	136.2	280,296	212	65,508	309	11,136
Lanark	2,723	369,239	135.6	211,205	511	222,796	436	37,875
Leeds	2,867	473,055	165.0	258,288	523	142,256	272	24,183
Lennox & Add'gton	2,857	406,837	142.4	211,555	67	14,070	210	2,392
Lincoln	1,279	180,595	141.2	129,848	64	27,712	433	4,711
Manitoulin	621	112,028	180.4	53,661	113	46,556	412	7,915
Middlesex	6,895	1,017,013	147.5	568,510	1,062	506,574	477	86,118
Muskoka	1,113	208,799	187.6	138,016	373	143,232	384	24,349
Nipissing	1,542	270,775	175.6	162,465	324	126,360	390	21,481
Norfolk	3,437	439,592	127.9	240,896	561	181,764	324	30,900
Northumberland	4,384	589,648	134.5	293,055	2,650	1,240,200	468	210,834
Ontario	6,338	889,221	140.3	450,835	6,231	3,233,889	519	549,761
Oxford	2,563	357,026	139.3	223,498	3,823	1,804,456	472	306,758
Parry Sound	1,322	244,173	184.7	152,120	420	120,120	286	20,420
Peel	4,468	525,437	117.6	240,650	832	317,824	382	54,030
Perth	3,014	454,813	150.9	272,433	3,058	1,565,696	512	266,168
Peterborough	2,438	414,948	170.2	221,997	1,706	839,352	492	142,690
Prescott	2,568	334,867	130.4	201,925	184	58,512	318	9,947
Prince Edward	1,853	241,261	130.2	124,973	45	10,800	240	1,836
Rainy R. & Kenora	694	129,500	186.6	84,046	168	56,448	336	9,596
Renfrew	4,400	682,880	155.2	398,802	417	101,748	244	17,297
Russell	1,548	215,482	139.2	132,090	393	147,375	375	25,054
Simcoe	12,514	2,069,816	165.4	854,834	4,967	2,051,371	413	348,733
Stormont	1,618	180,407	111.5	119,069	47	14,100	300	2,397
Sudbury	1,479	284,708	192.5	163,138	279	83,700	300	14,229
Thunder Bay	1,984	238,080	120.0	164,037	303	93,627	309	15,917
Timis. & Cochrane	1,131	191,591	169.4	112,464	323	115,311	357	19,603
Victoria	2,241	339,287	151.4	152,340	2,307	971,247	421	165,112
Waterloo	3,352	512,521	152.9	321,863	3,882	2,135,100	550	362,967
Welland	2,094	227,408	108.6	180,107	70	23,380	334	3,975
Wellington	5,363	846,818	157.9	398,851	8,432	4,612,304	547	784,092
Wentworth	5,171	720,837	139.4	464,940	1,396	717,544	514	121,982
York	9,402	1,086,871	115.6	599,953	4,693	2,421,588	516	411,670
The Province:								
1924	169,145	24,966,530	147.6	13,355,441	70,110	32,547,607	464	5,533,093
1923	164,682	19,131,980	116.2	14,306,447	65,193	27,099,910	416	5,419,982
Annual Averages:								
1912–1921	159,117	17,993,800	113.1	16,211,660	89,869	38,378,214	427	6,596,924
1902–1911	153,092	17,355,152	113.4	8,928,246	123,855	54,987,697	444	5,498,770
1892–1901	164,451	18,304,638	111.3	6,150,629	147,080	63,424,431	431	6,342,443
1882–1891	155,449	18,840,683	121.2	8,476,165	104,943	42,981,280	410	4,298,128
1882–1924	158,785	18,357,925	115.6	10,132,893	113,033	48,541,564	429	5,681,405

MANGELS AND SUGAR BEETS

TABLE XIV.—Showing by County Municipalities of Ontario the area, produce, and market value of Mangels and Sugar Beets for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for various periods.

Counties and Districts	Mangels				Sugar Beets			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	36	9,288	258	1,579	38	11,400	300	1,938
Brant	1,005	550,740	548	93,626	48	9,600	200	1,632
Bruce	1,770	715,080	404	121,564	84	33,600	400	5,712
Carleton	232	80,040	345	13,607	107	24,717	231	4,202
Dufferin	438	166,440	380	28,295	150	45,000	300	7,650
Dundas	54	13,500	250	2,295	53	15,635	295	2,658
Durham	1,108	360,100	325	61,217	41	10,250	250	1,742
Elgin	321	141,240	440	24,011	1,152	403,200	350	68,544
Essex	361	160,645	445	27,310	2,050	596,550	291	101,413
Frontenac	60	13,440	224	2,285	66	12,804	194	2,177
Glengarry	58	15,486	267	2,633	68	12,784	188	2,173
Grenville	44	13,464	306	2,289	41	9,553	233	1,624
Grey	2,010	635,160	316	107,977	200	52,200	261	8,874
Haldimand	135	54,000	400	9,180	61	15,128	248	2,572
Haliburton	20	7,000	350	1,190	4	800	200	136
Halton	855	430,920	504	73,256	42	16,800	400	2,856
Hastings	106	30,104	284	5,118	215	52,675	245	8,955
Huron	2,674	1,141,798	427	194,106	375	147,000	392	24,990
Kent	325	144,625	445	24,586	21,656	8,597,432	397	1,461,563
Lambton	561	225,522	402	38,339	6,860	2,455,880	358	417,500
Lanark	174	56,724	326	9,643	57	17,100	300	2,907
Leeds	152	41,192	271	7,003	108	31,644	293	5,379
Lennox & Add'gton	28	6,496	232	1,104	45	7,200	160	1,224
Lincoln	140	63,980	457	10,877	98	39,200	400	6,664
Manitoulin	47	18,800	400	3,196	17	4,250	250	722
Middlesex	1,045	576,840	552	98,063	354	123,192	348	20,943
Muskoka	56	19,040	340	3,237	13	4,394	338	747
Nipissing	30	12,000	400	2,040	6	2,400	400	408
Norfolk	410	177,940	434	30,250	180	67,680	376	11,506
Northumberland	564	294,408	522	50,049	103	41,200	400	7,004
Ontario	2,713	1,370,065	505	232,911	65	26,000	400	4,420
Oxford	1,990	983,060	494	167,120	120	40,800	340	6,936
Parry Sound	40	9,000	225	1,530	38	5,700	150	969
Peel	533	191,880	360	32,620	156	42,900	275	7,293
Perth	2,691	1,248,624	464	212,266	197	47,871	243	8,138
Peterborough	487	194,800	400	33,116	41	11,275	275	1,917
Prescott	97	29,100	300	4,947	120	2,400	200	4,080
Prince Edward	29	7,076	244	1,203	35	7,875	225	1,339
Rainy R. & Kenora	25	7,575	303	1,288	36	9,072	252	1,542
Renfrew	211	51,484	244	8,752	80	14,960	187	2,543
Russell	79	24,332	308	4,136	41	8,200	200	1,394
Simcoe	2,558	892,742	349	151,766	285	81,795	287	13,905
Stormont	43	8,600	200	1,462	29	7,975	275	1,356
Sudbury	52	19,500	375	3,315	20	4,000	200	680
Thunder Bay	39	11,232	288	1,909	13	2,340	180	398
Temis. & Cochrane	30	9,000	300	1,530	12	2,400	200	408
Victoria	823	380,226	462	64,638	98	39,200	400	6,664
Waterloo	2,174	958,734	441	162,985	10	3,500	350	595
Welland	80	32,000	400	5,440	31	10,850	350	1,845
Wellington	2,547	1,141,056	448	193,979	93	32,550	350	5,534
Wentworth	1,133	617,485	545	104,972	97	19,400	200	3,298
York	2,765	1,252,545	453	212,932	171	64,125	375	10,901
The Province:								
1924	35,958	15,616,128	434	2,654,742	36,080	13,346,456	371	2,272,570
1923	35,118	14,865,791	423	2,973,158	22,450	8,647,615	385	1,729,523
Annual Averages:								
1912–1921	45,147	19,038,931	422	2,954,339	23,813	8,931,907	375	1,845,807
1902–1911	70,809	33,245,680	470	2,659,654	*21,132	*8,484,719	*402	*1,027,108
1892–1901	39,984	17,864,726	447	1,429,178	.....	.....	....	.....
1882–1891	19,546	8,538,096	437	683,048	.....	.....	....	.....
1882–1924	43,284	19,388,898	448	2,003,799	†23,503	†8,965,257	†381	†1,617,720

*1907–11. †1907–24.

ALFALFA AND HAY AND CLOVER

TABLE XV.—Showing by County Municipalities of Ontario the area, produce, and market value of Alfalfa, Hay and Clover for the year 1924, together with the comparative totals for the Province for 1923, and the annual average for various periods.

Counties and Districts	Alfalfa				Hay and Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				$				$
Algoma	168	336	2.00	5,040	27,149	39,366	1.45	532,228
Brant	6,833	20,431	2.99	237,000	34,963	57,689	1.65	628,233
Bruce	31,744	83,169	2.62	853,314	129,077	207,814	1.61	1,986,702
Carleton	1,610	5,120	3.18	65,690	112,002	164,643	1.47	1,883,516
Dufferin	2,094	5,821	2.78	65,719	71,240	109,710	1.54	1,053,216
Dundas	882	2,205	2.50	24,255	57,768	95,317	1.65	977,952
Durham	1,613	4,065	2.52	51,504	57,836	83,284	1.44	992,745
Elgin	3,560	10,075	2.83	124,225	77,970	123,972	1.59	1,330,220
Essex	12,251	30,505	2.49	379,177	49,652	90,863	1.83	1,093,082
Frontenac	1,776	5,292	2.98	57,312	87,827	139,645	1.59	1,522,131
Glengarry	467	1,256	2.69	13,188	68,056	93,917	1.38	880,002
Grenville	610	1,592	2.61	16,875	54,675	90,214	1.65	924,694
Grey	37,805	91,866	2.43	960,000	165,129	272,463	1.65	2,809,094
Haldimand	27,184	79,921	2.94	904,705	66,647	109,968	1.65	1,101,879
Haliburton	78	156	2.00	1,560	15,488	24,161	1.56	311,677
Halton	15,268	38,170	2.50	429,413	37,986	62,297	1.64	693,366
Hastings	13,593	37,924	2.79	452,433	102,533	159,951	1.56	1,853,832
Huron	23,620	69,679	2.95	690,519	135,793	225,416	1.66	2,053,540
Kent	12,136	36,408	3.00	431,799	57,841	108,741	1.88	1,176,578
Lambton	26,687	80,061	3.00	843,042	86,863	151,142	1.74	1,531,068
Lanark	1,759	5,418	3.08	60,519	82,231	131,570	1.60	1,332,804
Leeds	1,008	2,480	2.46	32,240	81,156	129,850	1.60	1,506,260
Lennox & Add'gton	5,906	18,899	3.20	223,764	74,180	119,430	1.61	1,202,660
Lincoln	11,024	32,631	2.96	464,992	45,088	68,083	1.51	890,526
Manitoulin	532	1,240	2.33	14,334	21,009	28,572	1.36	321,149
Middlesex	12,836	35,941	2.80	414,759	124,572	215,510	1.73	2,336,128
Muskoka	35	70	2.00	959	30,799	46,199	1.50	600,587
Nipissing	237	474	2.00	3,925	29,526	47,242	1.60	554,621
Norfolk	5,127	14,253	2.78	171,036	57,175	84,619	1.48	977,349
Northumberland	5,818	15,418	2.65	185,941	70,758	123,827	1.75	1,421,534
Ontario	3,611	11,375	3.15	128,538	79,519	128,026	1.61	1,437,732
Oxford	9,102	27,670	3.04	342,555	84,302	141,627	1.68	1,542,318
Parry Sound	250	500	2.00	6,500	35,108	53,715	1.53	682,181
Peel	25,580	65,229	2.55	765,136	49,552	82,752	1.67	990,541
Perth	3,410	9,821	2.88	101,156	110,870	196,240	1.77	1,936,889
Peterborough	1,446	4,266	2.95	56,311	56,492	80,784	1.43	1,097,855
Prescott	483	966	2.00	9,660	71,946	102,883	1.43	905,370
Prince Edward	7,228	20,600	2.85	210,120	43,622	76,775	1.76	745,485
Rainy R. & Kenora	225	675	3.00	10,800	26,437	23,793	.90	332,626
Renfrew	1,067	2,998	2.81	38,974	102,616	153,924	1.50	1,799,372
Russell	686	1,715	2.50	15,861	58,038	84,735	1.46	733,805
Simcoe	8,392	23,414	2.79	295,953	135,656	199,414	1.47	2,373,027
Stormont	320	1,056	3.30	12,144	53,065	82,251	1.55	836,493
Sudbury	311	855	2.75	8,550	29,751	41,354	1.39	439,179
Thunder Bay	72	144	2.00	2,880	23,918	16,503	.69	325,274
Timis. & Cochrane	72	144	2.00	1,440	33,061	51,575	1.56	466,754
Victoria	1,503	3,352	2.23	38,548	64,298	93,875	1.46	1,157,479
Waterloo	5,090	15,117	2.97	187,300	57,444	105,271	1.85	1,279,503
Welland	5,220	15,869	3.04	236,289	56,807	82,938	1.46	1,132,933
Wellington	5,754	15,191	2.64	158,442	130,860	196,290	1.50	1,890,273
Wentworth	12,995	35,606	2.74	448,280	51,367	78,078	1.52	962,702
York	24,180	80,278	3.32	997,856	78,138	135,960	1.74	1,736,209
The Province:								
1924	381,258	1,067,717	2.80	12,252,536	3,545,856	5,615,238	1.58	61,283,373
1923	299,610	788,431	2.63	8,915,438	3,596,484	5,799,422	1.61	64,069,155
Annual Averages:								
1912–1921	168,413	406,540	2.41	6,422,524	3,347,351	4,709,381	1.41	74,803,560
1902–1911	.....	.....	.....	.....	*3,072,288	4,722,662	1.54	47,093,908
1892–1901	.....	.....	.....	.....	*2,520,783	3,650,840	1.45	29,085,813
1882–1891	.....	.....	.....	.....	*2,290,495	3,102,733	1.35	32,036,445
1882–1924	.....	.....	.....	.....	*2,921,244	4,311,394	1.48	49,205,731

*Including Alfalfa.

CARROTS—ALL FIELD CROPS

TABLE XVI.—Showing by County Municipalities of Ontario the area, produce, and market value of Carrots and all Field Crops enumerated in Tables VII to XVI, for the year 1924, together with the comparative totals for the Province for 1923, and the annual averages for the various periods.

Counties and Districts	Carrots				All Field Crops		
	Acres	Bushels	Per acre	Market value	Acres	Value	Per acre
				$		$	$
Algoma	62	8,928	144	1,518	49,677	1,240,507	24.97
Brant	27	6,750	250	1,147	135,644	3,776,407	27.84
Bruce	42	10,500	250	1,785	368,377	8,842,642	24.00
Carleton	162	17,010	105	2,892	263,157	6,367,743	24.20
Dufferin	6	600	100	102	200,662	4,363,229	21.74
Dundas	14	1,400	100	238	125,056	3,056,124	24.44
Durham	32	6,400	200	1,088	209,751	4,912,286	23.42
Elgin	25	6,250	250	1,062	238,883	6,463,740	27.06
Essex	55	11,000	200	1,870	286,142	8,944,407	31.26
Frontenac	42	5,208	124	885	155,627	3,274,261	21.04
Glengarry	37	8,029	217	1,365	135,277	2,562,082	18.94
Grenville	28	5,600	200	952	114,617	2,550,824	22.26
Grey	46	10,580	230	1,799	481,493	11,591,607	24.07
Haldimand	10	2,000	200	340	179,551	4,210,355	23.45
Haliburton	15	1,500	100	255	26,925	577,860	21.46
Halton	18	2,700	150	459	122,831	3,249,260	26.45
Hastings	52	10,816	208	1,839	281,241	6,645,587	23.63
Huron	27	8,100	300	1,377	432,186	11,329,183	26.21
Kent	44	12,452	283	2,117	374,006	13,238,675	35.40
Lambton	82	13,120	160	2,230	325,612	9,413,928	28.91
Lanark	32	4,800	150	816	179,219	4,034,264	22.51
Leeds	60	12,840	214	2,183	168,826	4,054,260	24.01
Lennox and Addington	65	8,125	125	1,381	161,931	3,455,698	21.34
Lincoln	54	12,960	240	2,203	111,449	3,068,929	27.54
Manitoulin	13	1,950	150	331	38,002	797,719	20.99
Middlesex	44	13,200	300	2,244	383,289	10,994,927	28.69
Muskoka	68	19,720	290	3,352	49,444	1,180,049	23.87
Nipissing	27	5,400	200	918	54,754	1,244,910	22.74
Norfolk	53	10,229	193	1,739	192,471	4,673,251	24.28
Northumberland	45	11,250	250	1,913	239,137	5,998,942	25.09
Ontario	58	14,500	250	2,465	283,860	8,163,846	28.76
Oxford	9	1,350	150	230	279,522	8,522,426	30.49
Parry Sound	28	5,376	192	914	61,611	1,448,634	23.51
Peel	85	12,750	150	2,168	186,567	4,557,456	24.43
Perth	5	1,375	275	234	318,481	8,512,248	26.73
Peterborough	50	9,400	188	1,598	172,496	4,098,827	23.76
Prescott	44	8,800	200	1,496	148,746	2,779,891	18.69
Prince Edward	18	2,250	125	383	132,394	2,964,491	22.39
Rainy River and Kenora	13	2,860	220	486	41,624	838,894	20.15
Renfrew	75	5,625	75	956	257,273	5,238,778	20.36
Russell	32	5,600	175	952	119,679	2,369,986	19.80
Simcoe	80	19,760	247	3,359	502,080	13,346,905	26.58
Stormont	21	4,620	220	785	106,645	2,429,598	22.78
Sudbury	56	11,200	200	1,904	55,443	1,233,523	22.25
Thunder Bay	36	5,400	150	918	37,916	761,668	20.09
Timiskaming and Cochrane	38	3,800	100	646	56,373	1,219,393	21.63
Victoria	21	2,100	100	357	207,147	5,056,077	24.41
Waterloo	30	6,000	200	1,020	207,196	6,653,777	32.11
Welland	28	4,564	163	776	128,290	3,388,747	26.41
Wellington	15	3,000	200	510	370,683	9,294,623	25.07
Wentworth	46	10,350	225	1,760	162,483	4,540,075	27.94
York	53	12,349	233	2,099	342,868	10,837,123	31.61
The Province:							
1924	2,128	402,446	189	68,416	10,264,614	264,370,642	25.76
1923	1,780	285,270	160	57,054	10,296,961	219,114,500	21.28
Annual Averages:							
1912–1921	2,568	626,100	244	118,422	*9,785,960	*267,211,002	27.31
1902–1911	5,243	1,688,002	322	211,000	9,233,879	156,824,689	16.98
1892–1901	11,163	3,880,538	348	485,068	8,494,796	106,139,762	12.49
1882–1891	10,243	3,659,347	351	457,417	7,517,606	116,195,708	15.48
1882–1924	6,977	2,318,610	332	300,909	8,863,781	166,756,719	18.81

*Including Flax, 1918–1921.

PASTURE, FALLOW, ORCHARD, SMALL FRUITS

TABLE XVII.—Showing by County Municipalities the area in Cleared Pasture, Summer Fallow, Orchards and Small Fruits in 1924, together with totals for the Province for the past five years; also, the number of silos in each county in 1924.

Counties and Districts	Cleared pasture	Summer fallow	Orchard	Small fruits	Total	No. of silos
	Acres	Acres	Acres	Acres	Acres	
Algoma	8,866	944	300	88	10,198	25
Brant	27,887	2,012	4,326	718	34,943	762
Bruce	152,604	12,707	7,158	347	172,816	744
Carleton	90,453	1,222	1,650	248	93,573	1,452
Dufferin	58,041	3,297	2,555	169	64,062	113
Dundas	43,516	420	1,733	193	45,862	913
Durham	65,398	3,290	7,234	446	76,368	670
Elgin	88,884	2,493	7,150	1,043	99,570	1,246
Essex	45,892	1,750	6,296	1,595	55,533	404
Frontenac	75,133	630	1,444	165	77,372	400
Glengarry	48,362	68	1,224	106	49,760	646
Grenville	53,316	930	1,298	145	55,689	518
Grey	154,293	10,623	10,253	663	175,832	1,044
Haldimand	37,781	7,475	4,808	310	50,374	514
Haliburton	16,064	282	119	10	16,475	6
Halton	31,454	2,747	6,091	881	41,173	592
Hastings	116,696	2,613	5,325	366	125,000	611
Huron	179,685	5,895	12,563	690	198,833	1,239
Kent	81,407	2,441	6,152	1,118	91,118	661
Lambton	156,888	4,152	11,018	846	172,904	1,388
Lanark	120,390	760	1,188	112	122,450	1,152
Leeds	80,530	419	1,573	280	82,802	1,182
Lennox and Addington	75,455	1,640	1,770	323	79,188	301
Lincoln	21,658	4,949	12,802	3,318	42,727	452
Manitoulin	9,248	242	208	26	9,724	45
Middlesex	221,298	5,407	12,373	1,268	240,346	2,165
Muskoka	16,518	222	110	69	16,919	31
Nipissing	9,482	420	80	28	10,010	6
Norfolk	47,830	4,876	9,303	1,667	63,685	906
Northumberland	74,037	3,582	12,708	882	91,209	727
Ontario	72,190	3,296	5,979	541	82,006	1,544
Oxford	85,915	1,982	8,030	709	96,636	2,335
Parry Sound	18,358	703	125	60	19,246	30
Peel	52,935	5,043	5,246	803	64,027	697
Perth	104,713	6,947	5,912	422	117,994	1,011
Peterborough	68,174	3,738	1,966	285	74,163	636
Prescott	55,282	12	825	142	56,261	565
Prince Edward	43,274	1,498	8,378	459	53,609	251
Rainy River and Kenora	6,051	479	11	41	6,582	5
Renfrew	94,422	2,667	859	216	98,164	544
Russell	37,270	129	521	68	37,988	671
Simcoe	105,436	26,492	8,647	997	141,572	1,355
Stormont	47,706	216	1,122	96	49,140	674
Sudbury	7,826	596	17	29	8,468	.....
Thunder Bay	4,422	367	77	54	4,920	7
Timiskaming and Cochrane	7,081	693	30	20	7,824	4
Victoria	60,726	2,867	2,016	195	65,804	676
Waterloo	29,953	3,791	4,381	484	38,609	1,201
Welland	27,107	7,055	5,856	1,005	41,023	552
Wellington	91,900	5,739	5,105	338	103,082	840
Wentworth	30,068	3,735	6,303	1,465	41,571	1,117
York	57,648	12,974	7,490	766	78,878	1,588
The Province:						
1924	3,317,532	179,527	229,708	27,315	3,754,082	37,218
1923	3,472,642	186,123	235,349	27,497	3,921,611	.....
1922	3,401,033	198,841	239,914	27,242	3,867,030	.....
1921	3,401,998	260,277	242,921	26,175	3,931,371	.....
1920	3,432,620	216,377	248,395	25,635	3,923,027	.....

MARKET PRICES

TABLE XVIII.—The following table shows by Counties the average prices of agricultural products for 1924, together with the average price for 1923, and the annual averages for various periods.

Counties and Districts	Fall Wheat, per bush.	Spring Wheat, per bush.	Oats, per bush.	Barley, per bush.	Peas, per bush.	Beans, per bush.	Rye, per bush.	Buckwheat per bush.	Corn (in ear), per bush.	Hay, per ton	Potatoes, per bush.
	cts.	cts.	cts.	cts.	cts.	$ c.	cts.	cts.	cts.	$ c.	cts.
Algoma	140.0	140.0	56.7	83.5	158.1	2 00	100.0	79.0	80.0	13 52	59.5
Brant	133.5	130.0	51.6	78.6	147.5	2 31	104.8	87.6	71.2	10 89	57.7
Bruce	134.4	128.9	52.3	77.7	141.4	2 35	103.8	85.5	80.0	9 56	49.2
Carleton	150.0	143.3	56.8	80.8	181.0	2 80	102.5	87.5	90.0	11 44	58.2
Dufferin	137.3	134.4	51.8	83.5	141.7	2 00	109.2	84.5	70.0	9 60	39.2
Dundas	141.6	150.0	60.9	85.7	148.0	2 63	112.0	92.2	87.8	10 26	63.8
Durham	136.9	132.0	54.5	83.6	153.8	2 28	110.6	85.8	80.0	11 92	47.3
Elgin	131.9	126.7	53.9	78.3	122.0	2 20	98.4	89.5	76.5	10 73	62.6
Essex	128.5	136.0	48.5	83.2	160.0	2 40	108.0	90.0	65.3	12 03	66.2
Frontenac	140.7	138.6	60.2	87.4	161.0	2 60	104.2	93.0	72.0	10 90	52.8
Glengarry	145.0	141.8	53.3	85.9	175.0	2 45	.....	89.4	80.0	9 37	61.1
Grenville	132.5	150.0	59.6	89.3	170.0	2 40	108.0	86.0	70.0	10 25	45.6
Grey	141.1	141.2	52.7	80.2	149.0	2 50	105.0	84.5	80.0	10 31	42.0
Haldimand	130.8	130.0	51.1	76.1	134.0	2 75	108.3	89.0	76.1	10 02	65.4
Haliburton	130.0	130.0	61.4	84.2	150.0	2 00	100.0	85.0	75.0	12 90	53.1
Halton	137.7	133.0	57.9	85.5	148.6	2 38	105.0	85.5	80.0	11 13	56.2
Hastings	130.0	138.8	58.9	87.7	173.8	2 67	110.2	91.6	80.0	11 59	50.1
Huron	136.4	134.0	52.2	82.7	148.8	2 27	103.3	90.2	80.0	9 11	50.1
Kent	133.4	125.0	48.9	80.6	156.0	2 25	107.6	91.9	68.5	10 82	55.9
Lambton	131.5	125.0	49.1	74.0	150.8	2 23	95.0	86.0	69.3	10 13	60.6
Lanark	138.3	137.5	60.0	87.0	166.7	2 85	108.0	84.7	90.0	10 13	57.2
Leeds	138.6	141.4	60.4	89.3	175.0	2 50	115.7	91.4	90.0	11 60	54.6
Lennox and Addington	131.9	136.8	55.9	83.7	151.3	2 54	107.1	90.3	72.0	10 07	52.0
Lincoln	130.2	130.0	55.8	83.9	158.3	3 00	109.2	90.8	67.0	13 08	71.9
Manitoulin	126.4	126.4	47.7	75.2	143.2	2 00	100.0	77.0	80.0	11 24	47.9
Middlesex	134.7	130.0	52.2	80.1	153.2	2 32	105.2	90.3	75.6	10 84	55.9
Muskoka	125.0	137.5	65.2	86.7	159.6	2 50	103.8	88.6	80.0	13 00	66.1
Nipissing	.....	137.9	61.6	84.5	166.5	2 50	100.0	90.0	80.0	11 74	60.0
Norfolk	130.3	125.0	52.5	77.4	150.0	2 38	105.2	86.8	74.7	11 55	54.8
Northumberland	131.5	126.3	56.5	80.4	136.9	2 20	113.3	84.3	70.0	11 48	49.7
Ontario	132.9	127.8	53.3	82.7	147.4	2 25	110.0	84.1	66.6	11 23	50.7
Oxford	132.3	130.0	55.6	80.3	146.0	2 35	102.1	89.0	73.2	10 89	62.6
Parry Sound	140.0	138.0	63.3	88.4	169.0	2 40	110.0	88.3	80.0	12 70	62.3
Peel	134.6	133.6	55.5	85.6	137.1	2 40	104.4	84.9	70.0	11 97	45.8
Perth	130.9	126.4	51.3	79.0	141.7	2 00	106.0	84.5	75.0	9 87	59.9
Peterborough	135.0	131.2	55.9	84.3	159.0	2 30	105.3	83.7	90.0	13 59	53.5
Prescott	140.0	150.0	54.4	84.8	166.7	2 60	100.0	93.8	78.0	8 80	60.3
Prince Edward	131.3	127.0	55.4	82.0	161.5	2 35	107.2	85.8	70.0	9 71	51.8
Rainy River & Kenora	142.5	140.9	59.4	80.0	193.0	2 50	105.0	80.0	80.0	13 98	64.9
Renfrew	144.6	141.0	57.4	78.9	174.0	2 51	101.8	81.3	76.0	11 69	58.4
Russell	150.0	142.2	52.6	80.0	200.0	2 60	.....	87.4	70.0	8 66	61.3
Simcoe	136.9	133.0	51.6	81.2	146.4	2 50	111.0	83.8	80.0	11 90	41.3
Stormont	145.0	150.0	62.7	90.0	176.0	2 40	.....	85.5	72.0	10 17	66.0
Sudbury	133.3	142.5	54.5	89.4	150.0	.....	106.2	98.3	80.0	10 62	57.3
Thunder Bay	150.0	150.0	57.8	78.0	163.0	.....	100.0	80.0	70.0	19 71	68.9
Timisk'ng & Cochrane	140.0	144.6	57.5	79.5	166.9	2 00	101.2	90.0	80.0	9 05	58.7
Victoria	138.4	133.1	52.1	83.7	150.6	2 50	106.1	89.3	80.0	12 33	44.9
Waterloo	133.9	130.0	58.5	82.3	147.7	2 25	108.2	86.6	80.0	12 04	62.8
Welland	138.2	130.0	55.7	82.9	152.5	3 00	110.0	92.4	81.4	13 66	79.2
Wellington	141.6	136.0	55.0	84.0	140.1	2 00	107.1	86.9	75.0	9 63	47.1
Wentworth	129.8	123.3	54.9	82.3	137.5	3 00	109.5	89.8	70.8	12 33	64.5
York	133.5	129.5	55.8	83.2	143.3	2 25	106.3	87.7	80.0	12 77	55.2
The Province:											
1924	133.9	137.0	54.2	82.2	151.1	2 29	107.5	86.7	70.2	10 91	53.5
1923	96.2	96.3	45.4	62.8	144.8	2 43	73.7	73.2	50.3	11 05	74.8
Annual Averages:											
1912–1921	144.5	171.6	58.5	86.0	172.3	2 35	111.4	94.4	62.3	15 88	90.1
1902–1911	83.6	81.2	36.7	50.1	74.8	1 48	60.2	52.4	38.2	9 97	51.4
1892–1901	67.8	67.5	27.9	38.5	53.5	93	44.9	38.7	25.0	7 97	33.6
1882–1891	90.0	89.6	34.3	54.5	61.6	1 16	60.0	41.5	.....	10 34	45.0
1882–1924	95.9	97.1	41.7	58.4	68.9	1 86	71.8	65.3	*41.9	11 41	55.2

*Average for 33 years, 1892–1924.

HORSES.

TABLE XIX.—Showing by County Municipalities the number and value of Horses on hand, June 15th, 1924, together with the totals for the Province for the past five years.

Counties and Districts	Stallions 2 yrs. old and over	Mares 2 yrs. old and over	Geldings 2 yrs. old and over	Colts and Fillies under 2 years	Total Horses	
					Number	Value
						$
Algoma	29	1,666	1,438	216	3,349	431,140
Brant	44	4,561	3,860	540	9,005	947,670
Bruce	118	12,365	8,431	2,048	22,962	2,432,267
Carleton	118	8,737	6,840	1,352	17,047	2,020,067
Dufferin	48	6,090	4,342	818	11,298	1,182,948
Dundas	42	4,451	3,886	604	8,983	901,055
Durham	74	7,050	5,042	993	13,159	1,404,256
Elgin	68	8,161	7,065	1,059	16,353	1,722,097
Essex	107	10,256	7,196	1,296	18,855	2,056,750
Frontenac	45	5,264	4,122	727	10,158	931,215
Glengarry	77	4,958	3,014	688	8,737	958,820
Grenville	46	3,735	2,905	533	7,219	729,563
Grey	127	14,973	11,033	2,276	28,409	2,960,523
Haldimand	45	5,382	4,556	825	10,808	1,151,855
Haliburton	14	998	877	105	1,994	214,172
Halton	49	4,106	3,350	537	8,042	920,687
Hastings	145	9,052	8,035	1,121	18,353	1,949,326
Huron	90	15,364	10,492	2,548	28,494	3,162,826
Kent	116	11,767	9,936	2,002	23,821	2,639,073
Lambton	146	11,970	8,346	2,090	22,552	2,494,562
Lanark	70	5,925	4,641	769	11,405	1,260,336
Leeds	57	5,542	4,916	612	11,127	1,100,719
Lennox and Addington	50	5,312	4,544	804	10,710	1,103,474
Lincoln	41	3,796	3,138	333	7,308	831,091
Manitoulin	17	1,185	923	143	2,268	265,086
Middlesex	130	16,012	11,573	2,460	30,175	3,242,528
Muskoka	16	1,741	1,434	142	3,333	426,780
Nipissing	74	1,804	1,498	217	3,593	460,687
Norfolk	76	6,633	5,719	892	13,320	1,346,060
Northumberland	79	7,778	7,012	1,051	15,920	1,665,390
Ontario	98	9,776	7,045	1,467	18,386	2,032,347
Oxford	80	9,965	7,892	1,240	19,177	2,161,369
Parry Sound	51	1,937	1,649	221	3,858	505,771
Peel	44	6,381	4,337	1,071	11,833	1,352,467
Perth	64	11,085	8,444	1,883	21,476	2,301,345
Peterborough	63	5,799	4,468	752	11,082	1,156,098
Prescott	75	4,406	2,870	723	8,074	861,507
Prince Edward	22	4,220	3,730	427	8,399	865,589
Rainy River and Kenora	34	1,390	1,248	250	2,922	413,628
Renfrew	155	7,905	5,421	1,209	14,690	1,816,558
Russell	82	3,799	2,778	627	7,286	790,213
Simcoe	154	16,149	12,764	2,211	31,278	3,510,596
Stormont	38	3,695	3,092	426	7,251	722,138
Sudbury	61	1,584	1,232	166	3,043	390,046
Thunder Bay	39	922	992	99	2,052	283,983
Timiskaming & Cochrane	46	1,521	1,396	123	3,086	471,095
Victoria	67	7,003	5,157	1,014	13,241	1,444,227
Waterloo	62	6,804	5,584	1,061	13,511	1,424,433
Welland	42	4,343	3,618	398	8,401	914,292
Wellington	93	11,984	8,837	1,895	22,809	2,512,568
Wentworth	48	5,611	4,516	590	10,765	1,186,088
York	95	11,457	9,326	1,620	22,498	2,578,174
The Province:						
1924	3,671	344,370	266,560	49,274	663,875	72,617,565
1923	3,562	348,266	268,381	53,162	673,371	74,542,351
1922	3,569	350,998	272,442	58,843	685,852	74,535,855
1921	3,665	353,075	272,087	65,410	694,237	75,680,750
1920	3,902	351,517	266,477	82,744	704,640	89,606,594

CATTLE AND

TABLE XX.—Showing by County Municipalities the number and value of Cattle

Counties and Districts	Bulls for breeding	Cows for milk purposes	Cows for beef purposes	Yearlings for milk purposes	Yearlings for beef purposes	Calves	All other Cattle
Algoma	374	5,969	483	1,772	1,693	3,271	1,529
Brant	750	15,052	1,007	4,352	3,793	6,564	2,060
Bruce	1,454	30,720	4,057	5,654	19,127	25,692	31,605
Carleton	2,518	43,893	2,819	9,213	4,480	14,770	7,862
Dufferin	777	14,348	2,441	2,948	8,459	11,934	10,976
Dundas	2,026	32,007	440	6,602	263	6,747	1,092
Durham	900	16,812	2,271	4,597	7,180	11,390	7,113
Elgin	1,740	32,598	1,643	7,124	6,214	12,714	7,952
Essex	1,047	20,402	2,472	4,410	2,608	7,173	2,769
Frontenac	2,252	30,806	1,572	6,524	2,168	11,139	3,091
Glengarry	2,171	31,688	1,400	6,295	566	6,972	1,470
Grenville	1,543	21,356	527	5,712	242	5,461	1,150
Grey	1,898	39,585	5,583	6,691	23,624	31,155	30,216
Haldimand	770	16,026	1,084	3,450	4,610	8,008	3,135
Haliburton	282	3,872	202	534	1,432	2,758	1,220
Halton	784	13,702	1,338	3,299	4,316	7,220	4,466
Hastings	3,601	46,230	2,358	10,324	3,123	17,141	4,187
Huron	1,764	36,215	4,797	7,647	22,958	29,507	28,630
Kent	1,040	21,160	4,433	4,903	9,426	14,393	14,183
Lambton	1,330	29,866	3,824	5,652	17,527	22,249	21,920
Lanark	1,726	26,857	2,897	7,002	8,336	15,933	10,130
Leeds	2,656	39,438	1,052	9,636	1,899	10,893	2,673
Lennox & Addington	1,646	26,182	1,097	4,803	2,999	9,525	2,762
Lincoln	467	9,833	607	2,317	1,310	3,810	798
Manitoulin	239	3,888	305	608	2,148	2,879	1,637
Middlesex	2,481	52,262	4,296	11,258	17,127	28,192	28,905
Muskoka	318	6,922	339	1,877	1,573	3,973	1,468
Nipissing	886	7,265	659	2,228	1,726	4,846	1,789
Norfolk	1,237	23,098	931	5,401	1,362	7,051	1,230
Northumberland	1,733	27,182	2,267	6,682	4,490	12,588	4,631
Ontario	1,304	24,348	3,768	5,171	12,234	16,979	15,030
Oxford	2,683	48,858	2,492	10,698	3,950	15,308	7,560
Parry Sound	424	7,447	562	2,103	2,452	5,170	2,845
Peel	1,111	18,942	2,186	5,952	4,556	9,237	5,112
Perth	1,847	34,980	3,185	8,769	12,738	22,608	13,756
Peterborough	1,265	22,367	1,307	5,725	5,764	11,980	5,802
Prescott	2,223	28,985	1,246	6,488	517	7,559	1,368
Prince Edward	1,160	17,043	788	3,377	910	4,680	617
Rainy R. & Kenora	251	4,228	280	1,242	1,422	2,715	1,128
Renfrew	2,747	27,654	4,797	6,967	9,445	18,582	10,210
Russell	1,738	24,186	1,173	5,234	874	6,658	1,409
Simcoe	2,133	41,940	5,292	10,031	19,407	28,412	20,440
Stormont	1,767	29,509	461	5,505	234	5,451	1,013
Sudbury	623	6,147	501	1,083	975	3,660	961
Thunder Bay	222	4,700	106	984	148	1,639	74
Timis'g & Cochrane	394	4,356	283	1,292	939	2,715	468
Victoria	899	18,855	3,084	4,206	10,009	14,598	11,970
Waterloo	1,044	19,560	1,132	5,049	6,148	11,576	2,999
Welland	666	12,488	732	2,730	1,560	4,434	1,359
Wellington	1,366	27,819	5,554	5,992	18,110	23,236	15,740
Wentworth	869	18,093	924	4,488	2,652	6,581	2,734
York	1,692	35,788	1,928	9,154	4,640	12,682	6,085
The Province:							
1924	70,838	1,203,527	100,982	271,755	306,463	592,408	371,329
1923	69,308	*1,265,965	.....	.....	.....	626,553	†876,261
1922	69,077	*1,235,665	.....	.....	.....	626,353	†905,086
1921	67,759	*1,204,270	.....	.....	.....	651,532	†966,552
1920	65,757	*1,170,010	.....	.....	.....	655,316	†990,744

* Milch cows. † Including yearlings.

SHEEP

on hand, June 15th, 1924, together with the totals for the Province for the past five years.

Total Cattle		Sheep and Lambs				Counties and Districts
				Total Sheep and Lambs		
Number	Value	Sheep	Lambs	Number	Value	
	$				$	
15,091	553,046	4,528	4,254	8,782	61,645	Algoma.
33,578	1,475,404	4,353	4,030	8,383	72,873	Brant.
118,309	4,673,103	17,772	19,008	36,780	301,834	Bruce.
85,555	3,267,667	10,363	10,484	20,847	173,770	Carleton.
51,883	1,881,704	12,993	13,418	26,411	235,922	Dufferin.
49,177	2,118,486	1,329	1,262	2,591	17,358	Dundas.
50,263	1,843,667	10,943	10,378	21,321	177,418	Durham.
69,985	3,011,735	9,777	9,755	19,532	178,163	Elgin.
40,881	1,704,626	9,214	8,105	17,319	137,772	Essex.
57,552	1,699,137	6,641	6,631	13,272	101,803	Frontenac.
50,562	1,970,334	3,394	3,479	6,873	46,556	Glengarry.
35,991	1,391,126	4,355	4,264	8,619	63,010	Grenville.
138,752	5,015,943	29,937	31,552	61,489	534,117	Grey.
37,083	1,565,765	6,649	6,872	13,521	110,239	Haldimand.
10,300	285,087	3,713	3,380	7,093	50,442	Haliburton.
35,125	1,546,635	6,123	5,818	11,941	112,048	Halton.
86,964	2,776,905	13,861	12,735	26,596	183,375	Hastings.
131,518	5,491,947	10,469	11,042	21,511	192,569	Huron.
69,538	2,636,045	8,840	8,398	17,238	138,934	Kent.
102,368	4,016,702	11,937	12,125	24,062	208,830	Lambton.
72,881	2,231,171	18,482	18,438	36,920	287,822	Lanark.
68,247	2,506,804	5,927	6,253	12,180	99,758	Leeds.
49,014	1,642,093	5,597	5,544	11,141	81,848	Lennox & Addington.
19,142	932,117	3,459	3,240	6,699	61,267	Lincoln.
11,704	347,315	7,658	7,842	15,500	106,114	Manitoulin.
144,521	6,317,355	9,600	9,771	19,371	166,917	Middlesex.
16,470	529,985	4,263	3,683	7,946	59,277	Muskoka.
19,399	561,140	6,543	5,753	12,296	78,676	Nipissing.
40,310	1,721,775	5,826	5,044	10,870	80,677	Norfolk.
59,573	2,195,449	8,576	8,101	16,677	143,278	Northumberland.
78,834	3,128,626	16,331	14,650	30,981	274,953	Ontario.
91,549	4,580,925	3,537	3,509	7,046	57,816	Oxford.
21,003	712,636	9,286	8,577	17,863	132,663	Parry Sound.
47,096	2,141,598	6,779	6,720	13,499	125,020	Peel.
97,883	4,109,426	4,108	4,347	8,455	79,017	Perth.
54,210	1,663,407	7,363	6,868	14,231	107,350	Peterborough.
48,386	1,584,771	2,975	2,545	5,520	38,033	Prescott.
28,575	1,109,250	4,802	5,158	9,960	71,650	Prince Edward.
11,266	355,582	1,422	1,152	2,574	18,857	Rainy River & Kenora.
80,402	2,116,736	30,501	28,542	59,043	405,623	Renfrew.
41,272	1,519,684	2,415	1,958	4,373	27,964	Russell.
127,655	4,447,217	25,405	24,833	50,238	411,508	Simcoe.
43,940	1,716,647	2,192	1,955	4,147	30,999	Stormont.
13,950	429,766	2,911	2,315	5,226	37,559	Sudbury.
7,873	358,686	533	346	879	7,314	Thunder Bay.
10,447	461,549	2,113	1,968	4,081	33,997	Timiskaming& Coch'ne.
63,621	2,092,697	13,087	12,499	25,586	203,669	Victoria.
47,508	2,047,661	3,243	3,202	6,445	48,928	Waterloo.
23,969	1,116,252	3,902	3,777	7,679	61,753	Welland.
97,817	4,119,382	15,559	16,094	31,653	308,077	Wellington.
36,341	1,804,175	5,069	5,550	10,619	93,163	Wentworth.
71,969	3,519,658	13,725	12,675	26,400	241,275	York.
						The Province:
2,917,302	113,046,599	440,380	429,899	870,279	7,081,500	1924
2,838,087	109,467,066	464,549	443,124	907,673	6,597,087	1923
2,836,181	103,899,416	501,319	485,298	986,617	6,612,959	1922
2,890,113	103,861,565	.....	.....	1,081,828	8,207,564	1921
2,881,827	176,897,490	.....	.....	1,129,084	16,191,741	1920

SWINE

TABLE XXI.—Showing by County Municipalities the number and value of Swine on hand, June 15th, 1924, together with the totals for the Province for the past five years.

Counties and Districts	Pigs saved from Spring	Brood Sows	All other Pigs	Total Swine	
				Number	Value
					$
Algoma	2,659	506	885	4,050	33,453
Brant	15,927	2,821	3,899	22,647	208,710
Bruce	35,102	5,916	11,844	52,862	473,494
Carleton	25,095	3,290	2,016	30,401	232,997
Dufferin	24,053	3,568	7,693	35,314	318,316
Dundas	15,102	2,549	5,376	23,027	202,679
Durham	19,929	3,232	5,400	28,561	244,569
Elgin	36,750	6,237	14,642	57,629	499,594
Essex	74,864	13,168	33,222	121,254	1,048,949
Frontenac	15,393	2,514	4,003	21,910	167,595
Glengarry	13,095	2,076	3,789	18,960	162,836
Grenville	9,367	1,639	3,331	14,337	118,649
Grey	49,350	8,222	17,499	75,071	677,259
Haldimand	16,333	2,635	4,861	23,829	221,646
Haliburton	887	279	645	1,811	18,697
Halton	13,817	2,279	3,497	19,593	189,002
Hastings	38,303	6,021	8,582	52,906	434,115
Huron	49,881	8,564	18,858	77,303	752,985
Kent	77,942	13,132	34,961	126,035	1,085,648
Lambton	46,792	7,409	19,472	73,673	653,628
Lanark	16,938	2,474	3,002	22,414	183,342
Leeds	17,606	2,628	4,042	24,276	197,713
Lennox and Addington	16,772	2,718	3,772	23,262	185,718
Lincoln	8,201	1,462	2,157	11,820	110,967
Manitoulin	2,483	448	561	3,492	26,978
Middlesex	49,214	7,636	14,305	71,155	603,273
Muskoka	1,672	450	861	2,983	33,974
Nipissing	5,013	828	288	6,129	49,318
Norfolk	22,356	3,850	6,915	33,121	297,967
Northumberland	30,300	4,280	3,543	38,123	334,527
Ontario	33,165	5,193	10,297	48,655	445,041
Oxford	37,405	6,370	14,645	58,420	532,630
Parry Sound	3,576	605	720	4,901	43,901
Peel	18,031	2,958	5,344	26,333	258,844
Perth	42,807	7,689	19,805	70,301	695,960
Peterborough	15,542	2,601	3,780	21,923	189,396
Prescott	14,347	1,857	2,756	18,960	142,549
Prince Edward	14,007	2,289	2,446	18,742	162,574
Rainy River and Kenora	2,948	544	1,166	4,658	48,376
Renfrew	18,152	3,051	4,183	25,386	205,902
Russell	16,730	2,196	2,243	21,169	160,563
Simcoe	61,370	9,332	15,590	86,292	772,816
Stormont	15,783	2,398	4,243	22,424	199,364
Sudbury	3,250	651	811	4,712	43,005
Thunder Bay	2,148	428	693	3,269	32,772
Timiskaming & Cochrane	2,543	609	1,174	4,326	51,283
Victoria	20,590	3,513	5,998	30,101	280,338
Waterloo	27,754	5,259	13,695	46,708	476,710
Welland	9,194	1,727	3,148	14,069	137,090
Wellington	47,592	8,122	19,131	74,845	720,885
Wentworth	16,237	2,950	5,333	24,520	256,713
York	41,282	6,687	11,272	59,241	576,389
The Province:					
1924	1,215,649	199,860	392,394	1,807,903	16,201,699
1923	.....	178,375	*1,821,089	1,734,734	19,018,668
1922	.....	172,947	*1,755,390	1,553,434	16,550,636
1921	.....	.....	.....	1,563,807	19,205,488
1920	.....	.....	.....	1,614,356	32,253,804

*Including Spring pigs.

POULTRY

TABLE XXII.—Showing by County Municipalities the number and value of Poultry on hand, June 15th, 1924, together with the totals for the Province for the past five years.

Counties and Districts	Turkeys	Geese	Ducks	Other Fowls	Total Poultry	
					Number	Value
						$
Algoma	3,741	1,170	879	64,598	70,388	62,254
Brant	1,916	5,959	6,794	206,260	220,929	172,373
Bruce	18,472	19,135	20,072	484,461	542,140	404,985
Carleton	13,412	17,808	14,674	363,179	409,073	349,379
Dufferin	3,207	15,540	9,323	205,888	233,958	188,298
Dundas	10,320	7,913	8,368	233,158	259,759	203,863
Durham	3,773	12,765	11,372	303,215	331,125	258,586
Elgin	15,385	11,995	15,579	427,532	470,491	361,573
Essex	13,330	23,202	34,145	725,297	795,974	635,643
Frontenac	25,740	3,585	7,730	174,088	211,143	216,121
Glengarry	15,785	1,756	2,717	172,136	192,394	167,398
Grenville	9,846	5,722	5,821	181,096	202,485	156,252
Grey	15,230	27,004	22,344	537,698	602,276	466,337
Haldimand	10,036	6,513	11,187	278,878	306,614	235,789
Haliburton	1,492	673	202	25,822	28,189	23,359
Halton	3,940	9,298	7,740	181,515	202,493	180,233
Hastings	12,899	8,361	8,066	367,469	396,795	304,901
Huron	9,971	25,172	31,325	773,653	840,121	616,484
Kent	12,366	19,672	35,123	700,007	767,168	546,505
Lambton	41,688	24,537	33,500	708,832	808,557	608,604
Lanark	9,984	4,457	5,235	225,970	245,646	209,798
Leeds	20,883	4,429	7,967	230,416	263,695	236,008
Lennox and Addington	8,784	3,674	5,443	234,609	252,510	183,346
Lincoln	5,083	4,507	4,883	190,268	204,741	174,604
Manitoulin	7,498	1,476	1,109	32,974	43,057	46,405
Middlesex	35,392	25,842	39,005	795,030	895,269	744,675
Muskoka	1,721	741	516	58,903	61,881	52,160
Nipissing	290	918	445	59,865	61,518	46,637
Norfolk	8,898	5,132	7,027	344,117	365,174	271,547
Northumberland	11,021	7,495	11,503	355,213	385,232	283,731
Ontario	6,153	17,426	15,565	379,621	418,765	361,460
Oxford	2,253	11,982	15,288	488,738	518,261	401,775
Parry Sound	2,588	1,753	1,278	64,082	69,701	60,366
Peel	7,323	15,660	13,155	255,625	291,763	259,131
Perth	2,820	19,599	20,661	502,502	545,582	428,704
Peterborough	13,669	7,290	5,510	233,855	260,324	207,982
Prescott	17,246	4,624	4,863	209,400	236,133	200,788
Prince Edward	7,394	2,524	4,364	163,912	178,194	139,347
Rainy River and Kenora	5,814	1,171	375	53,851	61,211	53,621
Renfrew	10,277	10,093	3,716	248,290	272,376	221,103
Russell	2,410	7,119	7,864	154,992	172,385	134,626
Simcoe	15,370	29,995	21,894	575,416	642,675	517,360
Stormont	9,305	3,422	5,043	196,766	214,536	172,532
Sudbury	1,240	1,003	378	51,585	54,206	46,060
Thunder Bay	749	561	835	49,006	51,151	41,775
Timiskaming & Cochrane	1,942	1,128	860	51,089	55,019	53,005
Victoria	7,863	13,711	7,515	250,773	279,862	221,649
Waterloo	509	6,404	7,285	280,700	294,898	227,141
Welland	3,298	4,168	6,393	231,333	245,192	239,811
Wellington	2,570	26,026	16,407	412,691	457,694	377,900
Wentworth	2,932	5,863	7,993	208,769	225,557	197,467
York	8,747	22,417	21,863	482,038	535,065	475,170
The Province:						
1924	484,575	520,390	559,199	15,187,181	16,751,345	13,446,621
1923	364,425	467,749	449,486	13,921,724	15,203,384	12,401,083
1922	336,447	446,487	440,539	12,740,844	13,964,317	12,241,252
1921	291,377	413,219	363,758	10,389,852	11,458,206	11,168,318
1920	267,883	395,238	311,652	10,030,872	11,005,645	11,787,708

FARM PROPERTY, IMPLEMENTS AND LIVE STOCK.

TABLE XXIII.—Showing by County Municipalities of Ontario the value of farm lands, buildings, implements and live stock for the year 1924, together with the totals for the Province for the past five years.

Counties and Districts	Land	Buildings	Implements	Live Stock on hand	Total
	$	$	$	$	$
Algoma	5,069,313	2,015,032	823,812	1,141,538	9,049,695
Brant	11,358,312	7,315,548	2,370,602	2,877,030	23,921,492
Bruce	29,358,808	16,404,632	4,923,466	8,285,683	58,972,589
Carleton	26,904,407	12,578,768	4,395,804	6,043,880	49,922,859
Dufferin	12,546,507	8,685,436	2,555,688	3,807,188	27,594,819
Dundas	11,589,852	6,516,707	2,712,303	3,443,451	24,262,313
Durham	13,032,835	8,090,026	2,752,220	3,928,496	27,803,577
Elgin	23,358,285	13,050,037	4,263,416	5,773,162	46,444,900
Essex	39,550,267	17,269,980	5,535,041	5,583,740	67,939,028
Frontenac	11,044,765	5,462,031	2,247,324	3,115,871	21,869,991
Glengarry	12,340,825	6,368,000	2,439,525	3,315,944	24,464,294
Grenville	7,643,886	4,813,889	1,810,774	2,458,600	16,727,149
Grey	34,063,831	21,189,446	6,309,548	9,654,179	71,217,004
Haldimand	12,755,246	7,811,482	2,782,026	3,285,294	26,634,048
Haliburton	1,761,704	749,347	338,850	591,757	3,441,658
Halton	12,929,176	7,949,213	2,303,642	2,948,605	26,130,636
Hastings	19,485,180	10,221,732	3,954,849	5,648,622	39,310,383
Huron	33,716,402	20,478,960	6,636,719	10,216,811	71,048,892
Kent	44,645,686	19,377,657	6,946,764	7,046,205	78,016,312
Lambton	34,237,468	16,308,958	5,701,942	7,982,326	64,230,694
Lanark	12,040,650	5,967,954	2,431,374	4,172,469	24,612,447
Leeds	13,120,106	7,100,050	2,702,136	4,141,002	27,063,294
Lennox and Addington	11,396,092	6,363,327	2,392,618	3,196,479	23,348,516
Lincoln	15,374,220	7,640,962	2,370,949	2,110,046	27,496,177
Manitoulin	2,865,759	1,007,277	467,576	791,898	5,132,510
Middlesex	44,107,632	24,451,708	8,072,778	11,074,748	87,706,866
Muskoka	3,956,326	1,763,135	780,776	1,102,176	7,602,413
Nipissing	4,018,429	1,675,763	869,303	1,196,458	7,759,953
Norfolk	15,234,302	8,776,423	3,239,373	3,718,026	30,968,124
Northumberland	15,344,158	9,666,272	3,403,004	4,622,375	33,035,809
Ontario	20,775,363	12,687,107	3,755,456	6,242,427	43,460,353
Oxford	25,684,578	16,701,059	5,639,507	7,734,515	55,759,659
Parry Sound	4,297,027	2,066,642	952,847	1,455,337	8,771,853
Peel	17,170,885	10,101,192	2,969,616	4,137,060	34,378,753
Perth	25,157,000	18,589,950	5,641,066	7,614,452	57,002,468
Peterborough	13,856,832	6,849,945	2,414,614	3,324,233	26,445,624
Prescott	14,907,373	6,646,180	2,430,477	2,827,648	26,811,678
Prince Edward	8,815,740	5,574,021	2,276,354	2,348,410	19,014,525
Rainy River and Kenora	4,798,120	1,391,376	669,440	890,064	7,749,000
Renfrew	21,097,745	8,535,462	3,783,566	4,765,922	38,182,695
Russell	12,244,743	5,787,686	1,907,648	2,633,050	22,573,127
Simcoe	35,978,752	21,209,286	6,785,809	9,659,497	73,633,344
Stormont	9,703,947	5,916,198	2,356,264	2,841,680	20,818,089
Sudbury	4,154,637	1,424,800	813,810	946,436	7,339,683
Thunder Bay	4,551,505	1,429,152	726,208	724,530	7,431,395
Timiskaming & Cochrane	7,720,997	1,804,849	1,107,207	1,070,929	11,703,982
Victoria	15,776,272	7,653,909	2,751,022	4,242,580	30,423,783
Waterloo	16,179,140	11,321,396	3,081,198	4,224,873	34,806,607
Welland	11,910,661	7,209,598	2,451,321	2,469,198	24,040,778
Wellington	24,819,824	18,154,520	4,914,345	8,038,812	55,927,501
Wentworth	17,006,576	9,122,022	2,984,376	3,537,606	32,650,580
York	33,890,205	17,292,914	5,075,501	7,390,666	63,649,286
The Province:					
1924	885,348,351	484,539,016	164,021,854	222,393,984	1,756,303,205
1923	904,659,633	480,260,117	163,033,141	222,026,255	1,769,979,146
1922	880,896,544	479,451,680	163,830,154	213,840,118	1,738,018,496
1921	851,300,059	484,188,897	159,913,871	218,123,685	1,713,526,512
1920	861,116,234	467,010,867	153,780,378	326,737,337	1,808,644,816

PART II

CHATTEL MORTGAGES

CHATTEL MORTGAGES

Table showing by County Municipalities of Ontario the total number and amount of Chattel mortgages on record and undischarged on December 31st, 1924, against (1) all occupations; (2) farmers; together with totals for the Province in the past four years.

Counties and Districts	Chattel mortgages against all occupations				Chattel mortgages against farmers			
	To secure existing debt		For future endorsation		To secure existing debt		For future endorsation	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount
		$		$		$		$
Algoma	165	178,080	1	50,000	72	50,031	....	.....
Brant	195	197,603	1	300	73	51,210	1	300
Bruce	226	179,163	1	208	128	78,993	1	208
Carleton	331	509,953	2	4,710	70	75,393	1	2,000
Cochrane	193	260,508	....	.....	43	57,480	....	.....
Dufferin	74	82,862	....	.....	41	40,440	....	.....
Elgin	223	225,990	1	25,000	111	95,508	....	.....
Essex	348	438,487	2	8,500	120	148,021	....	.....
Frontenac	229	245,497	....	.....	149	94,632	....	.....
Grey	289	244,072	....	.....	206	97,952	....	.....
Haldimand	99	98,049	....	.....	56	56,063	....	.....
Haliburton	33	29,936	....	.....	21	6,920	....	.....
Halton	69	102,721	....	.....	18	32,053	....	.....
Hastings	371	339,623	....	.....	188	134,594	....	.....
Huron	148	177,081	....	.....	95	98,944	....	.....
Kenora	29	28,025	....	.....	10	3,495	....	.....
Kent	334	442,138	....	.....	193	247,952	....	.....
Lambton	219	237,653	....	.....	90	89,207	....	.....
Lanark	124	146,342	1	13,000	57	43,605	....	.....
Leeds and Grenville	323	311,139	....	.....	243	223,540	....	.....
Lennox and Addington	112	200,248	2	2,141	67	59,894	2	2,141
Lincoln	152	234,978	....	.....	66	83,307	....	.....
Manitoulin	118	75,703	1	3,700	92	40,881	....	.....
Middlesex	269	290,084	....	.....	101	84,058	....	.....
Muskoka	112	*663,029	....	.....	40	8,954	....	.....
Nipissing	227	533,946	....	.....	102	88,278	....	.....
Norfolk	269	113,780	....	.....	178	62,619	....	.....
Northumberland and Durham	270	330,455	....	.....	131	122,752	....	.....
Ontario	165	171,135	....	.....	86	67,400	....	.....
Oxford	150	197,170	....	.....	100	118,154	....	.....
Parry Sound	152	193,937	....	.....	59	22,785	....	.....
Peel	51	100,550	....	.....	28	39,244	....	.....
Perth	149	216,425	5	70,380	66	79,690	....	.....
Peterborough	164	188,217	....	.....	62	33,284	....	.....
Prescott and Russell	235	219,099	....	.....	153	115,241	....	.....
Prince Edward	106	94,979	....	.....	75	62,988	....	.....
Rainy River	108	78,654	....	.....	54	18,589	....	.....
Renfrew	215	259,183	1	10,000	145	138,802	....	.....
Simcoe	395	372,005	....	.....	290	212,069	....	.....
Stormont, Dundas and Glengarry	327	505,463	5	1,775	232	265,280	3	1,585
Sudbury	405	389,652	3	12,200	213	121,471	....	.....
Thunder Bay	154	238,978	....	.....	55	46,065	....	.....
Timiskaming	196	291,941	....	.....	83	80,159	....	.....
Victoria	68	54,070	8	10,829	43	29,632	2	7,864
Waterloo	222	440,643	....	.....	59	66,585	....	.....
Welland	259	287,140	....	.....	57	61,941	....	.....
Wellington	183	383,081	....	.....	99	254,467	....	.....
Wentworth	517	690,177	....	.....	72	84,202	....	.....
York	3,496	2,597,309	....	.....	189	128,988	....	.....
The Province:								
1924	13,268	14,886,953	34	212,743	4,981	4,323,812	10	14,098
1923	12,647	15,182,832	37	142,769	4,705	3,817,109	11	12,979
1922	12,244	15,091,023	56	195,079	4,705	3,724,672	29	34,624
1921	10,375	13,998,014	47	293,036	3,743	3,016,280	15	32,051

*Including an instrument for $209,000 by a lumber company, a copy of which was also filed in Parry Sound.

Twenty-third Annual Report

OF THE

Temiskaming and Northern Ontario Railway Commission

ONTARIO GOVERNMENT RAILWAY

Hon. G. Howard Ferguson, Premier

For the Year Ending October 31st

1924

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO

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1925

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CANADA

To His Honour Henry Cockshutt, Esq.,

Lieutenant-Governor of the Province of Ontario.

May It Please Your Honour:

The undersigned has the honour to present to Your Honour the Twenty-third Annual Report of the Temiskaming and Northern Ontario Railway Commission, for the fiscal year ended October 31st, 1924.

Respectfully submitted,

G. Howard Ferguson,
Prime Minister and President of the Council.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY COMMISSION

GEO. W. LEE - - - - - - - - - Chairman, North Bay.
COL. J. I. McLAREN - - - - - - - Commissioner, Hamilton.
LT.-COL. L. T. MARTIN - - - - - - Commissioner, Ottawa.
W. H. MAUND - - - - - - - - - Secretary-Treasurer, North Bay.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY

REVIEW OF FISCAL YEAR 1924, ET AL.

During the past year the general business of the country at large failed to continue the advancement that was hoped for and that the early part indicated.

Continued confused world-wide conditions made for caution in public buying and restriction in enterprise, resulting in a pronounced dullness in all lines of business. This condition was reflected in declining Canadian railway operating revenues, culminating in a reduction in earnings amounting to approximately twelve million dollars ($12,000,000) for the period. In a survey of economic conditions, however, there is no more satisfactory feature than the improvement in agricultural returns. Last year there was greater volume; this year has shown materially greater values, and from an international viewpoint farm products have always made the largest contribution to Canada's export trade, being greater than the combined values of all other commodities. So far as that part of Northern Ontario—tributary to the T. & N. O. Railway—is concerned, general business conditions have compared favourably with other years and a steady improvement and progress is recorded in most lines of endeavour, especially in the mining of precious metals. New lands have been brought under cultivation for agricultural and general farming purposes, and mining interests and prospecting have materially increased, and this expansion is evidenced in the increasing traffic handled by this railway.

The present year has seen the completed construction and operation of two new branches of the T. & N. O. Railway.—the Kirkland Lake subdivision (22.4 miles) and the South Lorrain subdivision (17 miles), also the operation of the forty-three (43)-mile extension of the main line from Cochrane North to Island Falls Junction, with a further extension of thirty (30) miles nearing completion.

It is doubtful if any railway on the continent has enjoyed the same rate of progress in expansion of operated mileage, as the T. & N. O. Railway during this period, equalling as it does an increase approximately twenty-five per cent. (25%) of the total mileage.

The chief factor of this rapid advancement lies in the continued support afforded to this Commission's various undertakings by the Provincial Government.

The yearly expansion of the mining industry, and the establishment of pulp, lumbering, and power industries, have been an added incentive to the rapid growth of the road.

The policy of branch line building wherever opportunity offered to develop traffic and open up new territory, has proved a successful means in building up both the country and the railway, and it is confidently expected that the impetus given to development work by the operation of the Kirkland Lake and South Lorrain branches, will quickly result in their becoming prosperous and self-supporting units of the system.

To the outside world Northern Ontario is associated principally with the greatness of its precious metals industry—and perhaps rightly so—but in addition to this there are the vast potentialities of its immense clay belt lands for general

farming and agricultural purposes. Under ordinary cultivation the land retains its great and ever-increasing properties of production. For miles and miles the great clay belt stretches, with its millions of fertile acres awaiting settlement and development.

Important towns and villages—cities in embryo—have come into being, whose welfare and continued progress will always be dependent upon the surrounding farming communities.

In addition there are the great timber limits in areas far removed from the present sphere of railway activity, whose products in either raw material or manufactured articles eventually find their way to the rail-head.

Electric power generated by the fast-flowing rivers of the North yearly becomes a more important factor in the upbuilding of the country at large. At present Hydro-Electric power has been developed, and is in use by mines, mills and general industries to the extent of 100,000 h.p., and new units under construction and nearing completion will increase the total available by approximately 45,000 h.p.

The indications are that the gold output of Northern Ontario for the past twelve months will establish a new record in the mining industry of the Province, showing a production of twenty-five million dollars ($25,000,000).

As the known and established mining areas are developed, prospectors extend their activities into new fields far from the railway, and thus in due time the boundaries of extension are increased again and again to greater limits as conditions warrant. The T. & N. O. Railway is now reaching out in three directions: northward from Cochrane to James Bay and Hudson Bay; eastward from Swastika through the Kirkland and Larder Lake fields; and southward from Cobalt to the new silver region of South Lorrain. The recently-discovered Quebec goldfields (Rouyn) are naturally tributary to the Kirkland Lake and Larder Lake goldfields, and may eventually be reached by the further extension of the Kirkland Lake new subdivision.

Due to the broad policy of Government sanction to branch line construction, the mines and general industries are brought into close proximity with the financial and industrial centres of Canada and the United States.

An undertaking of great magnitude and far-reaching effects in the development of Northern Ontario is the extension of the provincial highway system into the very heart and centre of the mining areas. This will be a strong incentive to tourists to investigate the wonderful possibilities of the country, and to obtain at first hand a real knowledge of the North that they never had before. There is nothing more significant than the increased public interest in Northern Ontario and everything pertaining to this vast and richly endowed country, and the knowledge that the Government have not hesitated to add to public obligations for such a development purpose is an assurance that the Province has every confidence in the future of the new country.

The operation of the Temiskaming and Northern Ontario Railway, during past fiscal year, has been extremely satisfactory, considering the restrictions due to depressed trade conditions and consequent curtailment of traffic.

While revenue from freight earnings in 1924 shows a reduction of $135,409.09 (3.9%) as compared with preceding year, passenger revenue increased $95,237.92 (7.6%) during this period, and transportation expenditures were reduced by $209,601.10, equalling 9.5%.

Incidental revenues and other items of income maintained their parity with 1923.

Roundhouse and general yard facilities were materially enlarged during the

year to properly provide for present and anticipated increased locomotive and train-car movements, an additional six-stall unit and heavy new turntable being installed.

Under the heading of "maintenance," the general upkeep of the road was maintained to standard requirements, with additional work undertaken and completed, involving a further expenditure approximating $550,000.00, and this sum—among other major items—provided for some forty (40) miles of main-line rail renewal. The total expenditures have been taken to account in current year's operations.

The total revenue tonnage carried in 1924 was 1,410,725 tons, a decrease of 139,926 tons as compared with tonnage moved in 1923. This traffic was composed as follows:

	Per cent.
Forest products	41
Manufactured and Miscellaneous	32
Mines products	22
Agriculture products	4
Animal products	1

Statistical statements appended show that Commission's gross revenue from all sources in 1924 was $5,213,082.46, as compared with $5,261,592.16 for the preceding year—a decrease of $48,509.70, equalling 1.8%, and gross expenditure $4,373,384.48, compared with $4,424,743.23 in 1923—a decrease of $51,-358.75, equalling 1.2%. The net results of operation in 1924 show an earning of $839,697.98, as compared with $836,848.93—an increase in 1924 of $2,849.05.

Insurance against fire has been carried to the extent of $3,052,285.00 on Commission's property.

In conclusion, the railway is in an excellent financial and physical condition.

Geo. W. Lee,
Chairman.

COMPARATIVE STATEMENT OF EARNINGS AND EXPENDITURES AND RESULT OF OPERATION, FISCAL YEARS 1923-1924

	1924	1923
Revenue		
Revenue from transportation	$4,923,857 55	$4,972,738 19
Revenue other than transportation	248,887 11	226,375 83
	$5,172,744 66	$5,199,114 02
Other Income		
Ore royalties....Dr.	$4,058 58	Dr. $2,280 05
Rent—joint facilities	23,804 61	22,821 82
Lease of road	8,221 97	10,547 78
All other income	12,369 80	31,388 59
	$40,337 80	$62,478 14
Gross Income	$5,213,082 46	$5,261,592 16
Expenditures		
Maintenance of way and structures	$1,118,498 57	$865,320 68
Maintenance of equipment	818,781 21	866,557 45
Traffic	25,537 90	23,267 14
Transportation	1,964,257 58	2,173,858 68
Miscellaneous	115,711 22	71,165 38
General	183,737 54	178,876 33
Transportation for investment....Cr.	24,568 17	10,406 37
	$4,201,955 85	$4,168,639 29
Other Expenditures		
Equipment rental	$165,791 13	$250,087 44
Rent of joint facilities	5,637 50	6,016 50
	$171,428 63	$256,103 94
Total Expenditures	$4,373,384 48	$4,424,743 23
Net Result	$839,697 98	$836,848 93

AUDITOR'S REPORT

We have pleasure directing attention to letter from Edwards, Morgan & Co., Chartered Accountants, Toronto, respecting Commission's accounts:

GEO. W. LEE, ESQ.,
Chairman, Temiskaming and Northern Ontario Railway Commission,
North Bay, Ontario.

Dear Sir,—

Acting under instructions from the Commissioners, we have maintained a running audit of the accounts of the Commission for the year ending October 31, 1924. Our audit has covered Cash Receipts and Disbursements, Accounts Payable and Collectible, Agents' and Conductors' Accounts, Foreign Tickets, Foreign Freights, Car Mileage Accounts and Bank Balances. All transactions relating thereto have been accounted for. We have verified the balances of outstanding accounts, which are properly set forth in the General Ledger.

All information asked for has been cheerfully given. The books are in good order.

We are,

Yours faithfully,

(Signed) EDWARDS, MORGAN & CO.

PURCHASING AND STORES DEPARTMENT

Statement of Purchases and Issues, Fiscal Year, 1923-1924

Stock	1923 Purchases	1923 Issues	1924 Purchases	1924 Issues
Shop	$816,799 14	$680,553 72	$820,068 34	$879,728 70
Soft coal	1,112,913 30	966,183 97	911,644 35	811,811 85
Hard coal	32,845 54	18,414 84	20,305 05	21,815 50
Oil and waste	34,134 83	33,487 51	33,276 56	34,835 46
Stationery	39,473 32	38,393 53	33,369 72	31,028 55
Rail	465,713 00	444,039 65	336,818 24	420,680 76
Tie	143,477 18	107,620 84	376,776 32	323,845 86
Ice	9,808 66	10,696 94	12,640 47	12,087 45
	$2,655,164 97	$2,299,391 00	$2,544,899 05	$2,535,834 13
TOTAL PURCHASES	$2,655,164 97		$2,544,899 05	
TOTAL ISSUES	2,299,391 00		2,535,834 13	
	$4,954,555 97		$5,080,733 18	

G. B. ALFORD,
Purchasing Agent and Storekeeper.

GENERAL BALANCE SHEET, OCTOBER 31st, 1924

Assets

Property Owned:		
Cost of road as of Oct. 31, 1923	$19,724,534 04	
Cost of road for year ended Oct. 31, 1924	430,500 17	
		$20,155,034 21
Cost of equipment as of Oct. 31, 1923	$3,868,323 39	
Cost of equipment for year ended Oct. 31, 1924	452,315 97	
		4,320,639 36
James Bay Extension		4,035,450 47
South Lorrain Extension		395,116 94
Nipissing Central Railway		1,858,433 21
Working Assets:		
Cash	$647,415 90	
Cash—Land Agent	3,441 40	
Accounts collectible	398,887 54	
Balance due on townsite sales	13,919 01	
Agents and conductors	56,152 81	
Material and supplies	1,011,098 11	
Ballast pit operations	49,976 63	
Other assets	1,969 39	
		2,182,860 79
Deferred Debit Items:		
Treasurer's advance	$250 00	
Insurance paid in advance	1,756 71	
Surveys	33,518 74	
Accounts in suspense	7,423 18	
		42,948 63
		$32,990,483 61

Liabilities

Provincial Loan Account		$30,207,934 92
Working Liabilities:		
Audited accounts	$1,364,474 20	
Audited payrolls	17,551 06	
Traffic balance—Freight	6,512 17	
Traffic balance—Tickets	17,026 17	
Traffic balance—Car service	25,730 09	
		1,431,293 69
Deferred Credit Items:		
Accrued depreciation	$652,912 38	
Deposits on sidings	2,521 65	
Deposits on contracts	295 00	
War tax	1,684 64	
Fidelity Insurance Reserve	250 00	
Accounts in suspense	1,156 00	
		658,819 67
Free Surplus:		
Profit and Loss—Balance		692,435 33
		$32,990,483 61

Profit and Loss

Profit or loss on retired road and equipment	$2,005 97	By balance, October 31, 1923	$748,304 30
Uncollectible accounts	7 74	Result operation for year ended October 31, 1924	839,697 98
Disbursements a/c forest fires—1916	144,503 23	Townsites	133 87
Paid Treasurer of Ontario	750,000 00	Unclaimed wages	663 41
Balance carried forward	692,435 33	Unclaimed vouchers	152 71
	$1,588,952 27		$1,588,952 27

COMPARATIVE STATEMENT OF EARNINGS, EXPENDITURES AND RESULT OF OPERATION, NOVEMBER 1st, 1922, TO OCTOBER 31st, 1924

Revenue	Nov. 1st, 1923, to Oct. 31st, 1924	Nov. 1st, 1922, to Oct. 31st, 1923
TRANSPORTATION	$ c.	$ c.
101. Freight	3,296,211 95	3,431,621 04
102. Passenger	1,369,045 61	1,273,807 69
103. Excess baggage	10,975 41	10,336 62
105. Parlour and chair car	3,429 00	559 75
106. Mail	50,576 79	50,359 71
107. Express	169,432 67	174,134 52
109. Milk	1,579 25	667 88
110. Switching	18,545 59	29,119 03
111. Special service train	4,061 28	2,131 95
Total	4,923,857 55	4,972,738 19
INCIDENTAL		
131. Dining and buffet	40,369 05	7,650 20
133. Station, train and boat privileges	14,035 08	13,268 68
135. Storage, freight	2,262 01	2,217 76
136. Storage, baggage	1,236 45	925 00
137. Demurrage	15,088 00	29,596 50
138. Telegraph and telephone	153,902 16	139,476 28
142. Rents of buildings and other property	17,042 71	15,267 05
143. Miscellaneous	7,483 51	22,367 65
Total	251,418 97	230,769 12
JOINT FACILITY		
152. Joint facility—Dr.	2,531 86	4,393 29
Total	2,531 86	4,393 29
TOTAL REVENUE	5,172,744 66	5,199,114 02
Expenditures		
Maintenance of way and structures	1,118,498 57	865,320 68
Maintenance of equipment	818,781 21	866,557 45
Traffic	25,537 90	23,267 14
Transportation	1,964,257 58	2,173,858 68
Miscellaneous operations	115,711 22	71,165 38
General	183,737 54	178,876 33
Transportation for investment—Cr.	24,568 17	10,406 37
Total operating expenses	4,201,955 85	4,168,639 29
BALANCE	970,788 81	1,030,474 73
Other Income		
Ore royalties	Dr. 4,058 58	Dr. 2,280 05
Hire of freight cars	Dr. 204,271 74	Dr. 277,067 83
Rent, locomotives	11,087 19	6,265 86
Rent, passenger train cars	8,455 22	14,449 49
Rent, work equipment	18,938 20	6,265 04
Joint facility rent income	23,804 61	22,821 82
Joint facility rents	Dr. 5,637 50	Dr. 6,016 50
Income from lease of road	8,221 97	10,547 78
Interest and exchange	11,444 45	30,035 57
Miscellaneous income	925 35	1,353 02
Total	Dr. 131,090 83	Dr. 193,625 80
NET RESULT	839,697 98	836,848 93

Maintenance of Way and Structures

		Nov. 1st, 1923, to Oct. 31st, 1924		Nov. 1st, 1922, to Oct. 31st, 1923	
		$	c.	$	c.
201.	Superintendence	27,572	22	26,669	65
202.	Roadway maintenance	79,574	49	70,511	83
208.	Bridges, trestles and culverts	43,904	47	642	56
212.	Ties	141,188	75	110,817	75
214.	Rails	198,715	47	136,566	62
216.	Other track material	79,050	61	56,778	24
218.	Ballast	26,207	50	20,130	16
220.	Track laying and surfacing	315,775	97	244,387	10
221.	Right-of-way fences	18,351	59	26,058	87
223.	Snow and sand fences and snowsheds	.....		8	40
225.	Crossings and signs	3,040	06	3,213	23
227.	Station and office buildings	34,396	98	41,084	55
229.	Roadway buildings	8,383	36	7,205	00
231.	Water stations	9,211	66	13,911	54
233.	Fuel stations	2,252	92	3,360	72
235.	Shops and enginehouses	39,287	35	21,647	48
247.	Telegraph and telephone lines	7,969	28	6,652	24
249.	Signals and interlockers	23	04	11	78
257.	Power transmission systems	107	12	18	34
259.	Power distribution systems	239	99	110	56
261.	Power line poles and fixtures	.....		31	99
265.	Miscellaneous structures	3	83	6	28
269.	Roadway machines	9,038	56	6,042	79
271.	Small tools and supplies	15,857	75	12,716	27
272.	Removing snow, ice and sand	71,773	40	67,977	40
274.	Injuries to persons	3,828	96	3,937	65
275.	Insurance	6,422	15	3,963	54
276.	Stationery and printing	1,349	69	1,671	09
277.	Other expenses	1,654	44	682	96
278.	Maintaining joint tracks, yards and other facilities—Dr.	3,065	00	1,873	33
279.	Maintaining joint tracks, yards and other facilities—Cr.	29,748	04	23,369	24
280.	Equalization, way and structures—Dr.	551,496	97	.....	
280.	Equalization, way and structures—Cr.	551,496	97	.....	
	Total	1,118,498	57	865,320	68

Maintenance of Equipment

		Nov. 1st, 1923, to Oct. 31st, 1924		Nov. 1st, 1922, to Oct. 31st, 1923	
		$	c.	$	c.
301.	Superintendence	29,099	55	24,793	08
302.	Shop machinery	9,015	43	6,694	25
304.	Power plant machinery	2,802	19	2,368	43
308.	Steam locomotives, repairs	325,140	17	322,645	42
309.	Steam locomotives, depreciation	35,361	11	34,311	05
310.	Steam locomotives, retirements	.....		45,442	27
314.	Freight-train cars, repairs	185,688	27	209,309	01
315.	Freight-train cars, depreciation	20,268	51	17,336	88
316.	Freight-train cars, retirements	3,308	43	5,312	22
317.	Passenger-train cars, repairs	128,898	99	134,918	33
318.	Passenger-train cars, depreciation	15,040	77	15,035	64
326.	Work equipment, repairs	49,917	53	39,905	73
327.	Work equipment, depreciation	6,696	08	6,553	68
328.	Work equipment, retirements	47	21	2,744	52
332.	Injuries to persons	2,964	70	2,064	98
333.	Insurance	11,464	67	7,603	59
334.	Stationery and printing	2,240	70	2,207	23
335.	Other expenses	1,723	60	609	17
336.	Maintaining joint equipment at terminals—Dr.	.....		98	40
337.	Maintaining joint equipment at terminals—Cr.	10,896	70	13,396	43
	Total	818,781	21	866,557	45

Traffic

		Nov. 1st, 1923, to Oct. 31st, 1924	Nov. 1st, 1922, to Oct. 31st, 1923
351.	Superintendence	14,776 92	12,793 76
352.	Outside agencies	3,645 65	3,036 82
353.	Advertising	2,811 34	3,084 64
354.	Traffic associations	1,222 24	1,141 89
356.	Industrial and immigration bureaus	10 00	10 00
358.	Stationery and printing	3,071 75	3,200 03
	Total	25,537 90	23,267 14

Transportation

		$ c.	$ c.
371.	Superintendence	29,330 53	30,030 74
372.	Dispatching trains	22,604 92	23,051 79
373.	Station employees	313,142 37	307,755 74
374.	Weighing, inspection and demurrage bureaus	1,040 27	1,057 58
376.	Station supplies and expenses	41,227 23	44,525 34
377.	Yardmasters and yard clerks	50,163 72	48,459 77
378.	Yard conductors and brakemen	63,320 94	71,835 38
379.	Yard switch and signal tenders	3,065 84	3,007 10
380.	Yard enginemen	44,135 73	49,015 57
382.	Fuel for yard locomotives	66,239 93	91,543 74
385.	Water for yard locomotives	1,376 55	1,487 18
386.	Lubricants for yard locomotives	582 20	699 62
387.	Other supplies for yard locomotives	716 56	532 47
388.	Enginehouse expenses, yard	25,668 75	25,742 89
389.	Yard supplies and expenses	1,549 82	1,783 89
390.	Operating joint yards and terminals—Dr.	2,550 00	4,993 80
391.	Operating joint yards and terminals—Cr.	128,351 76	145,881 05
392.	Train enginemen	253,691 85	271,255 25
394.	Fuel for train locomotives	589,123 06	751,163 71
397.	Water for train locomotives	26,717 41	25,020 14
398.	Lubricants for train locomotives	7,201 25	7,398 22
399.	Other supplies for train locomotives	7,257 62	6,660 41
400.	Enginehouse expenses, train	77,962 86	76,741 44
401.	Trainmen	287,717 04	305,877 05
402.	Train supplies and expenses	88,719 25	74,927 38
405.	Crossing protection	444 25	441 14
410.	Stationery and printing	25,031 17	27,023 31
411.	Other expenses	1,812 48	281 82
413.	Operating joint tracks and facilities—Cr.	300 00	300 00
414.	Insurance	3,407 35	4,516 43
415.	Clearing wrecks	18,879 22	37,424 46
416.	Damage to property	75 00	745 00
417.	Damage to live stock on right-of-way	822 40	1,107 24
418.	Loss and damage, freight	22,724 45	12,945 60
419.	Loss and damage, baggage	680 10	78 07
420.	Injuries to persons	13,927 22	10,910 46
	Total	1,964,257 58	2,173,858 68

Miscellaneous Operations

		$ c.	$ c.
441.	Dining and buffet service	48,548 78	9,167 27
447.	Commercial telegraph, maintenance	6,628 17	5,620 91
448.	Commercial telegraph, operation	25,274 20	24,857 52
449.	Commercial telephone, maintenance	10,929 56	7,546 86
450.	Commercial telephone, operation	24,330 51	23,972 82
	Total	115,711 22	71,165 38

General

		Nov. 1st, 1923, to Oct. 31st, 1924	Nov. 1st, 1922, to Oct. 31st, 1923
451.	Salaries and expenses of general officers	44,908 74	42,565 70
452.	Salaries and expenses of clerks and attendants	102,160 82	93,728 08
453.	General office supplies and expenses	8,439 31	3,771 65
454.	Law expenses	4,842 00	5,079 23
455.	Insurance	336 80	119 66
457.	Pensions	16,000 00	25,775 73
458.	Stationery and printing	6,413 81	6,761 20
460.	Other expenses	1,115 01	1,568 46
462.	General joint facilities—Cr	478 95	493 38
	Total	183,737 54	178,876 33

NIPISSING CENTRAL RAILWAY COMPANY

Review of Fiscal Year 1924

Statistical data appended covering the year's operation show that the gross revenue in 1924 decreased $1,723.86—equal to 1.8 per cent.—as compared with preceding year. Gross expenditures in 1924 decreased by $21,710.08—equal to 18.1 per cent.—under 1923 figures, and the net results for current year show a loss of $5,215.21 as compared with a loss of $25,201.46 in 1923.

The total number of passengers carried in 1924 was 947,017 and in 1923 957,936, a decrease of 10,919.

The Kirkland Lake Extension of the road between Swastika and Larder Lake was completed by contractors and opened for traffic on November 10th, 1924.

There was no change in operated track mileage during the year, and the property of the Company, including buildings, rolling stock and equipment, has been fully maintained to the standard requirements of the road.

Insurance against fire has been carried to the extent of $110,050.00 during the period.

Geo. W. Lee,
President.

NIPISSING CENTRAL RAILWAY

General Balance Sheet, October 31st, 1924

Assets			Liabilities		
Property Owned:					
Cost of road, as of Oct. 31, 1923	$317,311 03		Capital stock		$159,000 00
Cost of road for year ended Oct. 31, 1924	1,341 81		T. & N. O. Railway—Advance		1,622,949 40
		$318,652 84			
Cost of equipment as of Oct. 31, 1924		104,476 83	Working Liabilities:		
Kirkland-Larder Lake Extension		1,264,914 32	Audited accounts		205,001 49
Working Assets:			Deferred Credit Items:		
Cash	$78,526 60		Deposits on contracts	$603 70	
Accounts collectible	72,760 87		Deposits on sidings	150 00	
Balance due on townsite sales	4,252 15				753 70
Balance due from agents and conductors	698 59				
Material on hand	17,802 80				
		174,041 01			
Deferred Debit Items:					
Insurance paid in advance		69 90			
Other Assets:					
Franchise	$1 00				
Profit and loss balance	125,548 69				
		125,549 69			
		$1,987,704 59			$1,987,704 59

Profit and Loss

To balance, October 31, 1923	$120,163 46	By balance, October 31, 1924	$125,548 69
Townsites	170 02		
Result operation for fiscal year ended Oct. 31, 1924—Deficit	5,215 21		
	$125,548 69		$125,548 69

COMPARATIVE STATEMENT OF EARNINGS AND EXPENDITURES AND RESULT OF OPERATION

November 1st, 1922, to October 31st, 1924

	Nov. 1st, 1923, to Oct. 31st, 1924	Nov. 1st, 1922, to Oct. 31st, 1923
Receipts		
I. Revenue from Transportation—	$ c.	$ c.
101. Passenger revenue	84,935 64	86,610 51
102. Baggage revenue	1,273 25	1,190 05
103. Parlour, sleeping, dining and special car revenue	303 00	285 00
108. Switching revenue	5,411 88	4,704 63
Total	91,923 77	92,790 19
II. Revenue from Other Railway Operations—		
110. Station and car privileges	500 00	500 00
113. Demurrage	932 00	1,689 00
116. Rent of equipment	25 00	.....
117. Rent of buildings and other property	491 59	561 00
119. Miscellaneous	1 00	57 00
Total	1,949 59	2,807 00
Total Revenue	93,873 36	95,597 19
Expenditures		
I. Way and Structures	21,481 19	25,675 73
II. Equipment	9,912 16	24,963 62
III. Power	19,478 12	19,695 25
IV. Conducting Transportation	32,430 41	30,982 23
VI. General and Miscellaneous	4,549 72	5,738 23
Total operating expenses	87,851 60	107,055 06
Balance	6,021 76	11,457 87 Dr.
Deductions from Income—		
Interest	3,221 20	5,976 04
Rent, leased road	8,015 77	7,767 55
Total	11,236 97	13,743 59
Net result	5,215 21 Dr.	25,201 46 Dr.

Nineteenth Annual Report

OF THE

ONTARIO RAILWAY

AND

MUNICIPAL BOARD

To December 31st, 1924

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO
Printed and Published by Clarkson W. James, Printer to the King's Most Excellent Majesty
1925

PRODUCED BY
The United Press
LIMITED
TORONTO
CANADA

To The Honourable Henry Cockshutt,
Lieutenant-Governor of the Province of Ontario.

May It Please Your Honour:

The undersigned has the honour to transmit herewith the Nineteenth Report of The Ontario Railway and Municipal Board for the year ending December 31st, 1924.

Respectfully submitted,

W. F. NICKLE,
Attorney-General.

Parliament Buildings,
Toronto.

47 Queen's Park,
Toronto, March 24th, 1925.

Re Nineteenth Annual Report.

DEAR SIR,—I have the honour to send you herewith the Nineteenth Annual Report of The Ontario Railway and Municipal Board, to December 31st, 1924.

I have the honour to be,

Your obedient servant,

H. C. SMALL,
Secretary.

The Honourable the Attorney-General,
Legislative Buildings, Toronto.

NINETEENTH ANNUAL REPORT

OF THE

Ontario Railway and Municipal Board

to December 31st, 1924

To The Honourable Henry Cockshutt,

Lieutenant-Governor of the Province of Ontario in Council.

In pursuance of Section 57 of "The Ontario Railway and Municipal Board Act," the Ontario Railway and Municipal Board beg leave respectfully to submit their Nineteenth Annual Report.

Sittings of the Board.

The Board held meetings for the transaction of routine business every juridical day throughout the year. The record of the sessions of the Board and an abstract of the proceedings, together with the Judgments or Opinions of the Board, appear in the Appendix.

Applications to the Board.

There were 820 formal applications made to the Board in 1924. Of the formal applications all those in which the parties were ready to go to trial have been heard and disposed of, except in a few cases where adjournments were granted to the parties at the request of Counsel, or in order to procure further evidence, or to obtain reports from experts in connection with technical matters in question.

Some of the formal applications are still standing for trial, but the parties are not yet ready to go to trial, as in the more important matters the parties interested are showing an increasing disposition to take advantage of the opportunities afforded them by the Board's Rules for obtaining discovery and production, thus, to some extent, delaying the final dates of the hearing of the applications, but in reality facilitating the final disposition at the hearings of all the matters in question between the parties.

Law Stamps.

The amount of revenue collected by the Board in Law Stamps in the year 1918 was $3,939.40; in 1919, $4,674.00; in 1920, $6,957.50; in 1921, $8,063.50; in 1922, $9,302.00; in 1923, $10,866.00, and $10,743.00 in 1924.

Provincial Railways.

An alphabetical list (under the names of the railway companies affected) of applications to the Board during 1924, affecting Provincial Railways, is contained in the Appendix to this Report.

Extensions of, and improvements to, Provincial Railways during 1924, as reported to the Board, will be found in the Appendix (arranged alphabetically) under the names of the several systems reporting.

A tabulation (arranged alphabetically) of Railways under the Board's jurisdiction, will be found in the Appendix. This tabulation shows, for each railway, the lengths of first and second main track, total main track, sidings and turnouts, and total computed as single track, the length under construction, the number of power houses and whether steam or water, and whence power obtained.

There will be found in the Appendix an analytical tabulated summary of Accident Reports received by the Board for 1924; also a continuation (up to and inclusive of 1924) of the Board's index to Railway Legislation.

The Appendix also contains tables showing provincial aid to railways since Confederation, and an index to Legislation, Dominion and Provincial, since 1867, affecting railways in Ontario.

Reports to the House.

In pursuance of Rule 61a of the House the Board has made inquiry into and reported upon five financial Bills which were introduced last session into the Legislature. A list of the Bills so reported will be found in the Appendix.

Annexations of Territory.

There were twelve applications made in 1924 by cities, towns, villages and townships for annexation of additional territory thereto. An alphabetical list of annexation applications is contained in the Appendix.

Validation of Municipal Debentures.

(Section 295 of "The Consolidated Municipal Act, 1922.")

There were 183 applications to the Board under the above legislation in 1924, involving debentures of a total value of $7,341,426.33. Acting under the powers conferred by the above legislation, the Board was able to grant relief in nearly all these cases, included in which were more than 110 by-laws affected by irregularities which would otherwise have probably required special Acts of the Legislature to make the debentures valid and saleable.

Municipalities are showing an increasing disposition to have their by-laws and debentures validated under said section 295, even in cases where no irregularities occur requiring the curative powers of the Board thereunder, as they have found that such validation facilitates the marketing of their debentures.

The amount of debentures validated by the Board during 1908 was over $840,000; during 1909, over $1,326,000; in 1910, over $718,000; in 1911, over $1,350,000; in 1912, over $1,330,000; in 1913, over $2,990,000; in 1914, over $3,071,000; in 1915, $4,172,912.01; in 1916, $2,289,744.20; in 1917, $1,538,689.99; in 1918, $5,273,742.43; in 1919, $2,209,589.99; in 1920, $4,359,538.05;

in 1921, $5,297,925.75; in 1922, $6,046,223.10; in 1923, $6,061,954.16,—a total to the end of 1924 of over $55,000,000. An alphabetical list of these applications filed in 1924 is given in the Appendix and will be found indexed under the word "Validation."

Assessment Appeals.

There were thirteen assessment appeals to the Board during the year 1924. The assessed value of the property affected by these appeals was over $2,250,000. An alphabetical list of these assessment appeals is contained in the Appendix.

Railway Returns.

Annual Reports to December 31st, 1924, by Railway Companies, under the Board's jurisdiction, were received, of which a summarized tabulation has been prepared for publication herein, and will be found in the Appendix. The Board has no means of auditing the reports as received, and does not therefore represent or guarantee that the figures taken therefrom are correct or accurate. Heretofore these reports were copied and tabulated as received and published in the Board's Annual Report, this practice having been discontinued for the first time this year, a summarized tabulation being now published as above mentioned.

Accidents.

A tabulated summary of Accident Reports received by the Board from Provincial Railways during the year 1924 appears in the Appendix and shows that eighteen persons were killed and 634 injured during the year.

In 1908, 26 persons were killed and 391 injured; in 1909, 16 were killed and 340 injured; in 1910, 34 were killed and 399 injured; in 1911, 33 were killed and 541 injured; in 1912, 25 were killed and 537 injured; in 1913, 13 were killed and 710 injured; in 1914, 12 were killed and 613 injured; in 1915, 30 were killed and 612 injured (this included 15 killed and 144 injured in accident at Queenston, July 7th, 1915); 13 were killed and 356 injured in 1916; 27 fatal and 377 other personal accidents occurred in 1917; 22 persons were killed and 426 injured during 1918; in 1919, 24 persons were killed and 507 injured; 16 were killed and 473 injured during 1920; 10 persons were killed and 270 injured in 1921; in 1922 there were 20 persons killed and 353 injured; and in 1923, 18 persons were killed and 592 injured in railway accidents.

Ontario Safety League.

Early in 1913 the members of the Board called together representatives of various organizations which were specially interested in the question of street traffic. Representatives were sent from the Board of Trade, Canadian Manufacturers' Association, City Council, Ontario Motor League, Board of Education, Separate School Board, Toronto Railway Company, Toronto District Labour Council, Boy Scouts, Team Owners' Association and many others. Every delegate realized that the question was one that dealt with actual dangers to which the public was constantly exposed, and each agreed that some definite and concerted action must be taken. After numerous conferences the Ontario Safety League was organized on the 17th September, 1913. The League has since done much good and vitally useful work towards lessening the dangers of travel especially on congested highways.

A summary of the League's 1924 campaign appears in the Appendix.

The League has for some time been arranging to become national in its organization and operations, and has furthered the incorporation of The Canadian National Safety League.

Plans.

(Plans of Land Subdivisions.)

Under "The Planning and Development Act" (Chapter 38, 1918), "The Land Titles Amendment Act, 1917," and "The Registry Act," the Board considered during the year 89 applications for approval of plans. An alphabetical list of owners of the lands subdivided by these plans will be found in the Appendix.

In 1912, 154 such applications were considered; 213 in 1913; 137 in 1914; 38 in 1915; 18 in 1916; 45 in 1917; 42 in 1918; 51 in 1919; 111 in 1920; 89 in 1921; 99 in 1922; and 100 in 1923.

Forms.

The Board has (for distribution to parties interested) the following forms and specifications, namely:

(1) The Board's Rules of Practice, Specifications and Practice Forms.

(2) Standard Specifications for Bridges, Viaducts, Trestles or other Structures.

(3) Pamphlet containing copy of "The Ontario Telephone Act, 1918," and with information regarding Provincial Telephone Systems.

(4) Specifications for Local Municipal Telephone Systems.

(5) Forms under "The Planning and Development Act."

(6) Forms for submission of a by-law or question to a poll under The Municipal Act.

(7) Forms of affidavits in support of applications under section 295 of The Municipal Act.

(8) Form for Return by Municipality operating a Telephone System.

(9) Form for Return by Company, etc., operating a Telephone System.

(10) Form for Tariff of Tolls for Telephone System.

(11) Forms for Annual Reports by Railway Systems.

(12) Forms for Reports as to Examination of Motormen.

(13) Forms for Reports of Accidents by Railway Systems.

(14) Regulation as to height of car steps.

(15) Directions for guidance of Applicants under subsection (3) of section 400 of The Municipal Act.

(16) Directions for guidance of applicants under "The Planning and Development Act."

(17) Tariff of the Board's Fees.

Extensions of Municipal Utilities Approved under Subsection (3) of Section 400 of "The Consolidated Municipal Act, 1922."

An alphabetical tabulation (under names of municipalities) of extensions to public utilities made by municipalities, and approved by the Board under the above subsection (3) will be found in the Appendix and is indexed under the word "Approval."

The total of the debenture by-laws approved in 1918 to pay for these extensions was $1,193,503.00; in 1919, $1,930,158.00; $1,733,109.00 in 1920; $2,921,292.51 in 1921; $5,782,578.72 in 1922; $3,984,022.75 in 1923; and $9,439,982.18 in 1924. This, of course, does not cover extensions made under by-laws approved by the ratepayers, but only under by-laws approved by the Board under the above subsection (3).

Miscellaneous Matters under the Board's Jurisdiction.

A classified analysis of miscellaneous matters dealt with under the jurisdiction of the Board (also indexed alphabetically under the names of the municipalities, companies or persons affected) will be found in the Appendix. These include annexations under the Municipal Act; Arbitrations; Assessment Appeals under section 80 of "The Assessment Act"; Restrictions as to use of land or buildings, etc., approved under section 399a of "The Consolidated Municipal Act, 1922"; Financial and other Bills reported to the House under Rule 61a; Bridges, relief from reconstruction of, Section 460 (9) of the Municipal Act; Cemeteries, incorporation of additional land in, etc., under section 40 (a) of "The Cemetery Act," as enacted by section 2 of ' The Cemetery Amendment Act, 1921"; County Road, abandonment of part of, section 448 of the Municipal Act; Detachment of farm lands from Town or Village, section 21a of the Municipal Act; Extension of Debenture Issue Period under subsections (9) and (10) of section 288 of the Municipal Act; Extension of time to pass By-laws, under section 280 (5) of the Municipal Act; Applications under the (Municipal) Franchises Act (Chapter 197, R.S.O.); Fuel, Municipal dealings in, under section 399 (39a) of the Municipal Act; Highways (narrow) approved under section 479 of the Municipal Act; Interest Decrease By-laws, approval of under section 291 of the Municipal Act; Legislation (Special), approval of By-laws under; Local Improvements, Petitions against under section 9 of "The Local Improvement Act"; Local Improvements—part only of work—approval of By-laws under section 18a of "The Local Improvement Act"; "Northern Fire Relief Act," applications under; "The Ontario Railway and Municipal Board Act, 1923" (Chap. 186, R.S.O.), applications under; Parks, setting aside of, for athletic purposes, under section 13 of "The Public Parks Act" (Chap. 203, R.S.O., 1914); Repeal of Money By-laws as to residue not raised, under section 292 of the Municipal Act; Restricted Areas, Approval By-laws establishing, under section 399a of the Municipal Act and repeal (in part) of restricted areas under subsection (2b) of said section 399a; Sewage and Sewage Disposal Works, application for directions and compensation in respect of, under section 94 of "The Public Health Act" as amended; Sewerage Areas, approval of, under special legislation; Sinking Funds, investment of, under section 303 of the Municipal Act; "The Suburban Area Development Act, 1921," (Chapter 66, Ontario Statutes, 1921, section 7), approval Agreement under; Tax Rate, approval of further debt, under section 297 (2) of the Municipal Act (as amended by Sec. 3, Chap. 53, O.S., 1924); Towns erected into Cities, under section 20 of the Municipal Act; (Police) Villages, formation of, under sections 502 (3) and 504a of the Municipal Act; Wards, Division of Cities, etc., into, under section 44 of the Municipal Act; Waterworks Areas and construction (special legislation); Weigh Scales and weighing of coal, etc., approval of By-laws under section 401 (13) of the Municipal Act.

There will be found in the Appendix a citation of the General Public Legislation clothing this Board with jurisdiction in respect of many matters besides those hereinbefore mentioned.

Under special legislation of the Provincial Legislature many other matters are now, at every session, referred to the Board for supervision or adjudication.

Public Utilities.

We have the honour to submit Reports for the year ending December 31st, 1924, upon radial electric and electric street and incline railways operating in the Province of Ontario under the jurisdiction of the Board.

We also submit six tabulated analytical statements prepared from the Annual Reports received from Provincial Railways, and showing the financial position and the operating details of such railways for the year 1924.

H. C. Small,
Secretary.

March 24th, 1925.

TELEPHONE SYSTEMS.

Report of the Supervisor of Telephone Systems for the Year 1924.

The following applications under the provisions of "The Ontario Telephone Act, 1918," were dealt with by the Board in 1924:

Under Section 3c: For authority to issue debentures for extensions and improvements to Telephone Systems under Part I	2
Under Section 7: For authority to remove signatures from petitions to Municipal Councils praying for the establishment of a telephone system	1
Under Section 12: For authority to extend Municipal Telephone Systems into unorganized territory	1
Under Section 13: For the approval of municipal by-laws providing for the establishment of telephone systems	4
Under Section 18: For the approval of municipal debenture by-laws to meet the cost of establishing or extending telephone systems	13
Under Section 19: For an extension of the period within which municipal debenture by-laws respecting telephone systems may be passed	8
Under Section 21: For authority to pass municipal debenture by-laws to meet the cost of reconstructing, replacing or altering telephone systems.	4
Under Section 24: For the approval of the purchase of an existing telephone system by a municipality	1
Under Section 25: For an order fixing the price to be offered by a municipality for the purchase of an existing system	2
Under Section 33: To determine the validity of a special rate levied under the provisions of Part II of "The Ontario Telephone Act, 1918"	1
Under Section 60: To fix the amount of remuneration to be paid to municipal officials for service in respect of telephone systems	1
Under Section 67: For the approval of municipal by-laws granting the right to erect poles and wires upon the highways	34
Under Section 71: For the right to erect poles and wires upon the highways in unorganized territory	2
Under Section 74a: For the approval of the by-laws of a telephone company.	1
Under Section 78: For the consent to erection of poles and wires parallel with existing lines	4
Under Section 79: For an order p eventing the duplication of pole leads upon the same highway	2
Under Section 80: For an order fixing the terms and conditions for furnishing service	2
Under Section 82: For the approval of agreements providing for interchange of service	152
Under Section 87: For the approval of the sale of telephone systems	12
Under Section 88: For authority to increase the charges for telephone service	27
Under Section 93: For authority to expend a portion of the moneys set aside for depreciation, upon new construction or extensions	2
Under Section 94: For authority to issue capital stock or bonds	2
Under Section 104a: For enquiry as to whether rates are sufficient to pay debenture debt, interest, maintenance charges, etc	1
Under Section 107: Complaining of the parallelling of existing pole leads without the consent of the Board	1
Total Number of Applications	280

In addition to the foregoing the Board dealt with one application under Section 7 of "The Obstructions on Highways Removal Act", 12 Geo. V, c. 82, for the apport onment of the cost of removing poles upon the highway and also heard an appeal from the decision of the County Judge relative to the assessment of telephone property under Section 79 of "The Assessment Act."

The Board or its Supervisor of Telephone Systems during the year visited fifty-seven different points n the Province in connection with the foregoing applications.

The continued policy of the Board in endeavouring to secure an amicable settlement of matters in dispute between the applicant and respondent has, with the assistance of the Board's Supervisor, proved successful in the majority of such cases.

In addition to the applications and complaints referred to, a vast amount of correspondence relating to telephone matters has been dealt with by the Board's Supervisor, through the medium of which much information and assistance has been given to municipalities, companies and other persons interested, and many difficulties that might otherwise have necessitated a formal application and public hearing have been satisfactorily adjusted.

The establishment of telephone systems by the rural municipalities under the provisions of Part II of "The Ontario Telephone Act, 1918," continues to grow in favour with the public. There are now one hundred and fourteen of these systems being operated or under construction. These systems are furnishing service in two hundred and fifty-six towns villages and townships.

There are nine systems owned and operated by municipalities under the provisions of Part I of the Act, viz.: The cities of Fort William and Port Arthur, the towns of Cochrane, Kenora, Fort Frances and Rainy River, and the townships of Alberton, Caledon and Hilliard.

The number of telephone systems of which the Board has record is six hundred and forty-one, operating approximately 113,000 telephones and representing an investment of about $10,100,000.

Detailed statistics and other information relative to telephone systems within the jurisdiction of the Board will be found in the Appendix to this report, entitled "Telephone Systems, 1925."

F. Dagger,
Supervisor of Telephone Systems.

APPENDIX TO NINETEENTH ANNUAL REPORT OF THE ONTARIO RAILWAY AND MUNICIPAL BOARD, 1924.

Procedure File 7317.

Application by the Municipality of Dysart, under section 295 of "The Consolidated Municipal Act, 1922," for validation of its By-law No. 641 and the debentures thereunder—($10,000.00 for Electric Light Plant at the Village of Haliburton).

Jan. 3rd. Judgment delivered (Application dismissed).
Jan. 21st. Notice of Motion for leave to Appeal filed.

Opinion of the Board.

This Application is to rescind the Board's Order, dated March 3rd, 1922, validating By-laws Nos. 641 and 663 of the Respondent Corporation.

The Board heard the argument made by Mr. Tilley on behalf of the Applicants, and the evidence and argument by Mr. McLaughlin on behalf of the Respondents on the 20th December last, and having again referred to the Statutes mentioned, and to the cases cited by Counsel for both sides, as well as having made a careful perusal of the exhibits on file, the evidence, and the extended notes regarding the whole matter in question, the Board is of opinion that "The Municipal Corporation of the United Township of Dysart had jurisdiction to pass By-laws Nos. 641 and 663, enabling the United Township of Dysart to construct and install an electric light plant at the Village of Haliburton, as provided in the aforesaid By-laws; that the irregularities in the By-laws in question were such as could be cured, and were cured by the Board under and in pursuance of Section 295 of 'The Municipal Act.'"

Furthermore the debentures issued under both By-laws have been disposed of, and three years' interest and principal have been paid in regard to one of the By-laws, and one year's interest and principal in regard to the other. Section 315 of "The Municipal Act" would appear to make valid and binding the By-laws and the debentures issued thereunder.

That for the foregoing reasons the Application be dismissed, and that there be no Order as to costs except hat the Applicants pay $10.00 for Law Stamp herein.

(Sgd.) A. B. Ingram,
Vice-Chairman.

Toronto, January 3rd, 1924.

Procedure File 7318.

Application by the Municipality of Dysart, under section 295 of "The Consolidated Municipal Act, 1922," for validation of its By-law No. 663 and the debentures thereunder—($15,000.00 for Electric Light Plant at the Village of Haliburton).

Jan. 3rd. Judgment delivered (Application dismissed). (See P.F. 7317.)

Jan. 21st. Notice of Motion for leave to appeal filed.

Procedure File 8226.

Application by the Township of Gloucester, under section 399a of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 6 (1922)—Restricted Area in Police Village of Rockcliffe Park.

Jan. 2nd. Report of Mr. Commissioner Ellis (under section 9, chapter 186, R.S.O.) filed and adopted.

Jan. 2nd. Order. (See files of Board for Order.)

Report.

Upon the hearing of this Application no one appeared in opposition to it except a property owner who desired information as to what might be done in case it was desired to erect semi-detached or duplex houses. I informed him that in such a case a By-law could be passed amending the present By-law with regard to the lands upon which it was proposed to erect semi-detached or duplex houses. This appeared to be quite satisfactory.

The form of the By-law being regular, I recommend it be approved.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, January 2nd, 1924.

Adopted as the basis of the Board's Order.

(Sgd.) A. B. Ingram,
Vice-Chairman.

Procedure File 8255.

Application by The Toronto Transportation Commission, under "The Ontario Railway Act," for approval of proposed alterations to thirteen Civic Cars.

Jan. 19th. Conference at Board's Chambers, between Transportation Commission Officials and Board, when it was agreed that Application be renewed so as to give Mr. Gibbons and Mr. Robbins an opportunity of being heard.

Mar. 19th. Hearing, pursuant to appointment, 11 a.m. to 1.15 p.m., at Board's Chambers. Hearing concluded. Judgment reserved.

Mar. 25th. Judgment delivered.

Mar. 28th. Draft Order filed.

Mar. 31st. Order issued.

Judgment.

This is an Application by The Toronto Transportation Commission, under Section 256 of "The Ontario Railway Act," and Section 256a of the said Act as enacted by 8 Geo. V, Chapter 30, Section 3, for approval of thirteen one-man, two-men cars, numbering 2168 to 2192, inclusive, even numbers only, and operation of the same on the following routes of its railway:

1. Bloor Street West, from Dundas Street to Jane Street;
2. Church Street line from Front and Yonge Streets to Wellington Street, to Church Street, to Bloor Street, to Avenue Road, to Dupont Street, to Christie Street and return to Front and Yonge Streets by Front Street;
3. Parliament route—From Sumach and Winchester Streets to Parliament Street, to Queen Street, to Church Street, to Richmond Street, to Victoria Street, to Queen Street and return to Parliament Street;
4. Coxwell Avenue route, from Queen Street to Danforth Avenue;
5. Davenport Road from Bathurst Street to Dovercourt Road.

Since the foregoing application was filed with the Board it has received very serious and earnest attention by the members of the Board, and by its technical advisers, taking into account the kind and class of service such type of car could provide when properly operated by one or two competent men during the slack and busy hours of each day, respectively, and the kind of routes most suitable for the operation of such service, keeping in view the safety and convenience of the public, and whether or not such service can be safely, adequately and economically provided as claimed by the Applicants.

In order to ascertain the safety and suitability of these cars for operation under local conditions, the Board on the 20th day of June, A.D. 1923, directed test operations to be conducted under actual service conditions. These tests

have been conducted as so directed, and the evidence tendered by the Applicants shows the safety and convenience of the cars for operation on the routes in question.

The Board is of the opinion that the type of these thirteen cars should be approved for one-man, two-men operation over the routes designated herein; such approval, however, is not to require the Toronto Transportation Commission to operate these cars with one man unless the Commission find such operation continues to be safe and expedient.

The Board's usual Order will issue in this case. The Applicants will pay $20.00 for Law Stamps, the Board's tariff fee herein.

(Sgd.) A. B. Ingram,
Vice-Chairman.

I agree,

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, March 25th, 1924.

Procedure File 8257.

In the matter of the application of Thomas Young, under section 21a of "The Consolidated Municipal Act, 1922," for detachment of his farm lands from the Town of Durham.

Jan. 14th. Hearing continued, 11 to 11.30 a.m., at the Board's Chambers. Counsel to draft and approve Order pursuant to Board's directions. (See Reporter's Notes).

Aug. 29th. Order, following form of approved draft filed.

Dec. 31st. Order issued. (For Order, see files of Board.)

Procedure File 8281 (P. 443).

Application by Wm. E. Davidson and others, under section 21a of "The Consolidated Municipal Act, 1922," for detachment from the Town of Listowel of certain farm lands and the annexation of same to the adjoining Townships of Wallace and Elma.

Jan. 22nd. Hearing continued at Board's Chambers, 11 a.m. to 12.50 p.m. Hearing concluded. Order to be drafted in accordance with Board's findings and marked approved by all Municipalities and a representative of Applicants. (See Reporter's Notes.)

April 24th. Hearing pursuant to Appointment, 10 a.m. to 12 m., at Town Hall, Listowel, to settle Order. Draft Order as amended in regard to school to be submitted and initialled by Townships and Listowel and filed with Board within ten days. Detachment to take effect on 1st May, 1924.

May 27th. Approved draft Order filed.

June 18th. Order issued. (For Order, see files of Board.)

Procedure File 8296.

Application by James McMillan and others, under section 21a of "The Consolidated Municipal Act, 1922," for detachment of certain farm lands from the Town of Palmerston and the annexation of same to the Townships of Minto and Wallace.

Jan. 23rd. Hearing continued, 11 a.m. to 12.45 p.m., at Board's Chambers. Points in dispute settled by Board. Order to be drafted by Applicants' Solicitor and approved by town and each township. (See Reporter's Notes.)

June 13th. Approved draft Order filed.

June 13th. Order issued. (For Order, see files of Board.)

Procedure File 8441.

Application by The Toronto Transportation Commission, under section 256a of "The Ontario Railway Act," for approval of operation of one-man cars over certain routes.

Mar. 19th. Hearing. (See P.F. 8255.)

Mar. 25th. Judgment delivered. (See P.F. 8255.)

Mar. 28th. Draft Order filed.

Mar. 31st. Order issued.

Procedure File 8452.

In the matter of the petition of Henry Dirks and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the City of Hamilton of part of the Township of Barton.

Mar. 11th. Hearing, pursuant to appointment, 11 a.m. to 12.15 p.m. Application granted. City Solicitor to draft Order and submit to township and county for approval.

Mar. 26th. Approved draft Order filed.

Mar. 29th. Order, in form of approved draft, issued. (See files of Board for Order.)

Procedure File 8692. (P. 477.)

Application by Jas. E. McMann and Chas. Laskey, owners, under "The Planning and Development Act," for approval of plan of Lot No. 12, Range 4, Township Sarnia, County Lambton.

July 7th. Objection filed by Village of Point Edward.

July 18th. New application and material filed.

July 29th. Hearing, 11 a.m. to 12 m., at Board's Chambers. Plan to be amended as directed by the Board. (See Reporter's Notes.)

Sept. 10th. Further hearing, 2.30 to 3.15 p.m. Board's proposition No. 1 to be practically adopted by all parties. (See Reporter's Notes.)

Sept. 22nd. Amended plan filed and approved and certified.

Procedure File 8721.

In the matter of the application of John F. Bell and others, under section 21a of "The Consolidated Municipal Act, 1922," for detachment from the Town of Harriston of certain farm lands and the annexation of same to the Township of Minto.

Jan. 8th. Hearing continued, pursuant to appointment, 11 a.m. to 12.30 p.m., at Board's Chambers. Directions given for adjustment of assets and preparation of Order by Applicants' Solicitor. (Order to be marked approved by town and township.) (See Reporter's Notes.)

Jan. 17th. Approved draft Order filed.

Jan. 18th. Order issued. (See files of Board for Order.)

Procedure File 8745.

In the matter of the petition of M. V. H. Francois and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the City of Windsor of part of the Township of Sandwich West, including Windsor Jockey Club property.

Jan. 4th. Hearing, pursuant to arrangement, 10.30 to 11.45 a.m., to settle minutes of Order. Minutes of Order settled.

Jan. 4th. Draft Order (providing for vote) filed.

Jan. 4th. Order (providing for vote) issued. (For Order, see files of Board.)

Feb. 8th. Certificate of Township Clerk that vote in favour of annexation, filed.

Feb. 11th. Petition refused.

Procedure File 8749.

In the matter of the application of the Town of Grimsby, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the said Town of part of the Township of North Grimsby.

Feb. 1st. Approved draft Order filed.

Feb. 4th. Amendment to Order filed.

Feb. 4th. Order issued. (For Order, see files of Board.)

Procedure File 8762.

Between The Orono Telephone Company, Limited, Applicant, and The Port Hope Telephone Company, Limited, Respondent. For an Order requiring the Respondent to remove all poles and wires paralleling the pole leads of the Applicant's system which the Respondent may have erected contrary to the provisions of section 78 of "The Ontario Telephone Act, 1918"; also, for the disconnection of the party line between the Villages of Clarke and Orono from the switchboard of the Applicant at the last-named point.

Jan. 11th. Opinion delivered.

Jan. 18th. Order.

Opinion of the Board.

This application was heard by A. B. Ingram, Esquire, Vice-Chairman, in the Town Hall, Port Hope, on December 13th, 1923, the notes of the proceedings of such hearing having been extended and considered by the Board. The Applicant was represented by Dr. Neil Colville, Secretary-Treasurer, and the Respondent by G. W. Jones, Manager.

From the evidence submitted and the material filed with the Board it would appear that the telephone systems of the Applicant and Respondent are located in the Township of Clarke, the Central Office of the Applicant being in the Village of Orono and that of the Respondent in the Village of Clarke. The Applicant complains that its pole leads have been paralleled by the lines of the Respondent at different points without the consent of this Board, as required by Section 78 of "The Ontario Telephone Act, 1918," as follows:

(1) From the Village of Orono south to the Village of Newcastle.
(2) Along the 4th Concession, Township of Clarke, for about one mile east of the Orono-Newcastle road.
(3) On the 5th Concession east and west of the Village of Starkville.

(4) On the Manvers Road from the Village of Kendal to Starkville station.
(5) On the Manvers Road from Starkville station to the Village of Clarke.
(6) On the first side road west of the Manvers Road between the 2nd and 3rd Concessions, Township of Clarke.

The evidence as to the dates upon which the parallel lines complained of were erected is conflicting and very indefinite. This is important in view of the fact that the provisions of "The Ontario Telephone Act" requiring the consent of this Board to the duplication of pole leads upon the same highway did not come into force until May, 1915. Mr. G. W. Jones, Manager of the Respondent Company, who is in the best position to know the actual facts, claims that the following lines were built by his company or their previous owners prior to 1915 and no definite evidence was presented by the Applicant in contradiction of this:

(*a*) From the Village of Orono to the Village of Newcastle.
(*b*) On the 5th Concession east and west of the Village of Starkville.
(*c*) On the Manvers Road from Starkville station to Mr. Robinson's.
(*d*) On the Manvers Road from Kendal south to Mr. Jackson's.
(*e*) On the first side road west of the Manvers Road between the 2nd and 3rd Concessions, Township of Clarke.

As it would appear that the paralleling complained of in the foregoing paragraphs (*a*) to (*e*) occurred before the consent of this Board was required by Statute, this portion of the application may be eliminated.

It is admitted by the Respondent that the following lines have been erected since 1915:

(1) On the Manvers Road from the 6th Concession to Mr. Falls, in 1915.
(2) On the 4th Concession east of the Orono-Newcastle road, in 1920.
(3) On the Manvers Road south from Starkville station to the Village of Clarke, in 1920.

In regard to the line from the 6th Concession to Mr. Falls, it is claimed by the Respondent that the Applicant consented to the erection of the line complained of, Mr. G. W. Jones in his evidence stating that:

> "I consulted the Company before we built and they said they would not take on any more telephones, and there were seven or eight people isolated there, and it was built with the full consent of that company."

It is also claimed by the Respondent that consent was given by the Applicant to the erection of the line on the 4th Concession. The erection of this line was necessary in order to avoid interference from power lines, the evidence of Mr. Jones being as follows:

> "We did that paralleling to get away from the power line and with the consent of Dr. Colville."

It would also appear that the Applicant has abandoned the line between Starkville station and the Village of Clarke. Therefore, it cannot be claimed that the erection of a pole lead between these points is causing the Applicant any inconvenience.

The Board is of opinion that the Respondent is deserving of censure for its neglect to obtain the consent of this Board before the lines referred to in the

last preceding paragraphs, Nos. 1, 2 and 3, were erected. The fact, however, that the Applicant has allowed several years to elapse before filing its complaint does not tend to convince the Board that the interests of justice would be served by requiring the removal of the lines complained of.

It must not be assumed that Section 78 of "The Ontario Telephone Act" was enacted for the purpose of depriving any person or persons of the right to be served by that telephone system which any such person or persons decide will best meet their needs.

Section 80 of the said Act makes it obligatory upon every telephone company within the jurisdiction of Ontario to furnish service whenever any person makes application for same the only qualification being that this Board may fix the terms and conditions for furnishing such service where the Applicant and the Company fail to agree. In view of the last-named provision, it is the duty of this Board to facilitate in every way possible the furnishing of telephone service to all Applicants for same, and it would be contrary to the spirit of Section 80 were the Board to deny any company the right to erect the lines necessary for the furnishing of the service applied for.

It would not appear that Section 78 of "The Ontario Telephone Act, 1918," was enacted in order to enable a telephone company to secure a monopoly within any given area, but rather that the purpose of such legislation was to prevent the unnecessary duplication or multiplication of pole leads upon and along the same highway.

This view is supported by the provisions of Section 79 of the Act, which confers upon the Board authority to make such Order as may be deemed expedient for authorizing the extension of any telephone system which may be required for the convenience of persons desiring service, and also for preventing the unnecessary multiplication of pole leads upon and along the same highway.

It must not be assumed, however, that a telephone company may erect poles upon and along or adjacent to and parallel with any portion of a highway upon or along which the pole leads of another company within the jurisdiction of Ontario are already erected, without the consent of this Board, notwithstanding the fact that the other company may have consented to the paralleling of its lines, and were it not for the fact that the removal of lines erected contrary to the provisions of the Act already referred to might cause serious inconvenience to the telephone-using public, the Board would not hesitate to order such removal. It may, however, be pointed out that Section 111 of "The Ontario Telephone Act, 1918," empowers the Board to prescribe a penalty not exceeding $100.00 for every breach of the provisions of the said Act, and this Board will not hesitate to use its powers whenever it is satisfied that there has been a wilful breach of such provisions.

In regard to the request of the Applicant that the party line terminating at the exchanges of the Applicant and Respondent in the Villages of Orono and Clarke, respectively, known as "Line No. 13," be discontinued from the switchboard at the last-named point, inasmuch as the connections of this line are incorporated in an agreement between the Applicant and Respondent providing for interchange of service, this request cannot be entertained. If the Applicant is dissatisfied with any of the terms or conditions of the said agreement, the same may be terminated by giving sixty days' notice prior to the expiration of any year. So long, however, as this agreement is in effect the Board cannot see its way to vary any of the terms and conditions contained therein.

For the reasons herein stated the Board is of opinion that this application should be dismissed.

The Board is further of opinion that there should be no Order for costs, save and except that the Applicant and Respondent each pay $5.00 for the Law Stamps required for the Order in this matter.

(Sgd.) A. B. Ingram,
Vice-Chairman.

Toronto, January 11th, 1924.

I agree,

(Sgd.) J. A. Ellis.
Commissioner.

18th January, 1924.

Order.

Upon the application of the above-named Applicant, in the presence of the Applicant and Respondent, upon reading the notes of evidence adduced on behalf of the Applicant and Respondent before A. B. Ingram, Esquire, Vice-Chairman, and the other material filed, the Board orders that this application be dismissed.

The Board makes no Order for costs, save and except that the Applicant and Respondent shall each pay $5.00 for the Law Stamps required for this Order.

(Sgd) A. B. Ingram,
Vice-Chairman.

(Seal)

Procedure File 8806.

In the matter of the application of David Stanley Austin, trading as "The Murray-Brighton Telephone Company," under section 7 of "The Obstructions on Highways Removal Act, 1920," for an Order determining how the cost of the removal of certain poles and wires upon Road No. 38, in the Township of Murray, shall be apportioned as between the said Applicant and the United Counties of Northumberland and Durham.

Jan. 4th. Report of Board's Supervisor of Telephone Systems filed.
Jan. 4th. Opinion of Board delivered.
Feb. 5th. Order. (For Order, see files of Board.)

Report.

The undersigned, in accordance with the instructions of the Board, inspected the locations on the County Provincial Road No. 36, in the Township of Murray, indicated on exhibits 1 and 2 submitted at the hearing in this matter at Cobourg, on December 14th, 1923. There were present at the inspection, Messrs. George Greer, County Road Superintendent; E. Wessels, County Road Foreman; D. S. Austin, the Applicant, and Allan Guy Austin.

In regard to the location of the poles indicated on Exhibit 1, the undersigned is of the opinion that there is no doubt as to the necessity of these poles and wires having to be removed, and there does not appear to be any difference of opinion as between the Road Superintendent and the Applicant in regard thereto. Exception, however, was taken by the Road Superintendent in regard to the two poles on private property south of the blacksmith shop, it being contended by him that the line should have been kept on the west and south side at the bend of the road. The undersigned is of the opinion that the course

adopted by the Applicant was the least expensive and much better from the telephone engineering standpoint. A glance at this exhibit will show that the alternative suggested by the Road Superintendent would have required the use of at least one additional pole and a number of guys or braces to withstand the strain of the line at the curve.

In regard to the poles indicated on Exhibit 2, it will be noted that in the evidence the Respondent contended it was only necessary to change the location of three poles at the north end of this section of the road and that the removal of the eight poles to the south was unnecessary. On this section the road has been widened and the fence on the west side set back. The poles to which exception was taken have been removed by the Applicant to a location six feet from the new fence and in line with the three poles which the Respondent claims were all it was necessary to remove. If we consider only the travelled road, i.e., that part which is paved, as it at present exists, there was no actual necessity to have removed the eight poles referred to, as in the former locations the road-making would not be interfered with. On the other hand, had these poles not been removed the undersigned is of opinion that they would have created a possible danger to traffic because of their close proximity to the paved portion of the highway. Their present locations, i.e., six feet from the fence, which, according to the evidence submitted at the hearing, were assigned to the Applicant by the Road Foreman, removes this element of danger. There is, also, the further fact that the Respondent contemplates at some future date increasing the width of the paved surface of the road, and it was in view of this that the additional land was purchased and the fence moved back. There is no doubt, whatever, that these poles would have to be placed in the present locations when that time arrives.

The undersigned is of opinion that in the absence of definite instructions from the Respondent the Applicant was justified in assuming it was intended that he should change the locations of all the poles on that section of the road referred to.

The undersigned is further of opinion that the cost of the work as submitted by the Applicant is not excessive.

(Sgd.) F. DAGGER,
Supervisor of Telephone Systems.

Toronto, January 4th, 1924.

OPINION OF THE BOARD.

This application was heard by A. B. Ingram, Esquire, Vice-Chairman, in the Court House, Cobourg, on December 14th, 1923, the notes of the proceedings at such hearing having been extended and considered by the Board. The Applicant was present in person and F. D. Boggs, Esquire, K.C., appeared for the Respondent.

From the evidence submitted it would appear that the Applicant was notified in a communication dated August 21st, 1923, from the County Road Superintendent, as follows:

> "I hereby notify you that your telephone line on Road 38, Murray Township, will have to be removed to allow our construction work. Kindly have the poles removed at once where the men are doing construction work."

In consequence of this communication the Applicant and his son, Allan Guy Austin, met the Road Foreman, Mr. Wessels, who staked the new locations of certain poles, and, according to the evidence of the Applicant and the said

Allan Guy Austin, instructions were given to remove all the poles indicated in red on the plan marked "Exhibit 2," and "to keep six feet from the fence all the way along." These witnesses were most definite in their statements that no poles were moved except with the knowledge and under the instructions of the Road Foreman. The cost of this work, in accordance with the statements filed with the application, is $141.74, being $105.00 for labour and $36.74 for material. A statement filed subsequent to the hearing and verified by the Statutory Declarations of the Applicant and Allan Guy Austin, shows the cost of the work to be $36.74 for material and $112.50 for labour, a total of $149.24.

In the evidence submitted by the Respondent it is contended:

1. That a number of poles were removed unnecessarily, and without the instructions of the Respondent or its officials.
2. That the cost of the work was excessive, particular exception being taken to the item of $22.50 for the use of motor truck, at the rate of 30 cents an hour.

Dealing with point No. 1, the evidence submitted would appear to show that the new locations of all the poles were indicated, if not actually staked, by Road Foreman, Wessels, although it is contended that a number of poles, notably eight marked in red on Exhibit 2, were removed by the Applicant for his own benefit, i.e., the benefit of the system. It is clear from the evidence that apart from the communication of the County Road Superintendent, dated August 21st, 1923, only verbal instructions were given to the Applicant as to what poles were to be removed and their locations. There is nothing in the evidence submitted to show the actual number of poles which the Respondent required the Applicant to move before the work was commenced, consequently misunderstandings may have arisen and the Applicant may have been left to use in part his own judgment in the matter. It would have been far more satisfactory had the Respondent furnished the Applicant with a plan upon which was indicated the poles to be removed and the new locations allotted for each, or, in the alternative, with written instructions describing clearly the number of poles to be removed and their locations.

In order to satisfy the Board as to the necessity or otherwise for removing all the poles indicated in the Applicant's claim, the Board's Supervisor of Telephone Systems has inspected those portions of the highway indicated in Exhibits 1 and 2 filed at the hearing, and his report, which is attached hereto, tends to support the claim of the Applicant that all the work done was desirable, while some doubt is expressed as to the immediate necessity of removing eight of the poles indicated on Exhibit 1.

In view of the indefiniteness of the evidence as to the actual instructions given to the Applicant and of the further fact that the highway will ultimately derive benefit from the changed location of he eight poles referred to, the Applicant's claim in regard to these poles is entitled to some consideration.

In regard to point No. 2, in view of the prevailing rate of wages paid to telephone construction men, the wages paid by the Applicant do not appear to be excessive. In regard to the use of the motor truck, in view of the prevailing practice of telephone companies in connection with telephone construction work, the Applicant's judgment as to the necessity for the use of this truck is not questioned. The actual use of the truck during the time charged for is not disputed.

The correspondence filed in connection with this application shows that the Applicant, in a communication to Mr. George Greer, County Road Superin-

tendent, dated August 23rd, 1923, stated that he, the Applicant, would be "agreeable to 50 per cent. as to division of costs." Although this offer was afterwards withdrawn by the Applicant, at the same time it furnishes some indication as to what in his own opinion would be a fair apportionment of the cost of this work.

The Board is, therefore, of opinion, in view of the facts submitted, that this case would be met by apportioning the cost of this work, as follows: $75.00 to be paid by the Respondent, the balance by the Applicant, and directs that an Order be made accordingly.

The Board is further of opinion that there should be no Order for costs, save and except that the Respondent shall pay $15.00 for the Law Stamps required for the Order in this matter.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, January 4th, 1924.

Procedure File 8835.

In the matter of the petition of Geo. Geier and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the City of Kitchener of part of the Township of Waterloo (Spring Street area).

Mar. 4th. New Petition by Alfred Connor and others, filed.

Mar. 21st. Subpoena issued to Messrs. Proudfoot & Co., Solicitors for Mrs. Campbell, opposing the application.

Mar. 25th. Hearing, pursuant to appointment, 1.30 p.m., Council Chamber, City Hall, Kitchener. Application dismissed.

Procedure File 8836.

In the matter of the petition of Harry James Pope and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the City of Kitchener of part Township Waterloo (King Street East area).

Mar. 4th. New Petition, by Samuel Schmitzer and others, filed.

Mar. 25th. Hearing, pursuant to appointment, 1.30 p.m. to 1.45 p.m., Council Chamber, City Hall, Kitchener. Application granted. Annexation to take effect 1st July, 1924. Adjustment of school debentures and drainage debentures to be made with township. Township to collect taxes for 1924 and adjust with city.

Sept. 4th. Approved draft Order filed.

Sept. 5th. Order issued. (For Order, see files of Board.)

Procedure File 8844.

In the matter of The Toronto and Hamilton Highway Commission, and in the matter of an expropriation of lands at Oakville, in the County of Halton. Between C. F. Bulmer and Bulmers, Ltd., Claimants; and The Toronto and Hamilton Highway Commission, Respondent.

Jan. 3rd. Hearing, pursuant to appointment, 11 to 11.30 a.m., of Claimants' Motion for particulars herein. Particulars having been furnished, Motion dismissed. (See Reporter's Notes.)

Jan. 9th. Hearing, pursuant to appointment, 11 a.m. to 6.10 p.m. Adjourned to 10th inst., at 11 a.m.

Jan. 10th. Hearing continued, 11 a.m. to 3 p.m. Adjourned to 11th inst., at 11 a.m.

Jan. 11th. Hearing continued, 11 a.m. to 5.15 p.m. Adjourned to 15th inst., at 11 a.m.

Jan. 15th. Hearing adjourned at request of Counsel.

Jan. 28th. Hearing, pursuant to notice, to hear Claimants' Motion to reopen their case and put in further evidence. Claimants' application granted, no formal Order. Hearing of arbitration to resume on 20th Feb., at 11 a.m., at Board's Chambers.

Feb. 20th. Hearing continued, 11 a.m. to 4.15 p.m. Adjourned to Mar. 3rd, at 11 a.m.

Mar. 3rd. Hearing continued, 11 a.m. to 5.15 p.m. Adjourned to 10.30 a.m., Mar. 4th.

Mar. 4th. Hearing continued, 10.30 a.m. to 4.30 p.m. Adjourned for view on 5th inst., at 2 p.m. Arguments to be filed and served. (See Reporter's Notes.)

Mar. 5th. View by Board, 2 to 5 p.m.

Mar. 17th. Argument on behalf of Claimant filed.

Mar. 21st. Argument on behalf of Respondent filed.

Mar. 26th. Reply of Claimant to Respondent's Argument, filed.

April 28th. Opinion delivered.

April 28th. Award delivered.

Between C. F. Bulmer and Bulmers, Limited, Claimants; and The Toronto and Hamilton Highway Commission, Respondents.

Opinion of the Board.

The Toronto and Hamilton Highway Commission did, on or about the 30th day of May, A.D. 1923, expropriate the following lands for use in connection with a new high level bridge over Sixteen-Mile Creek, in the Town of Oakville, namely: All and singular that certain parcel or tract of land and premises, situate, lying and being in the Town of Oakville, in the County of Halton and Province of Ontario, being composed of a part of Block 110, according to the Town Plot of Oakville, and which said parcel is more particularly described as follows: Commencing at the intersection of the northwesterly limit of The Toronto and Hamilton Highway (formerly called Colborne Street), being the southeasterly limit of said Block 110, with the northeasterly limit of Forsyth Street, thence north fifty-one degrees and thirty-one minutes (51° 31′) west along the said limit of Forsyth Street fifty feet (50′); thence north thirty-eight degrees (38°) east, parallel to the said limit of the Toronto and Hamilton Highway two hundred and twenty-two feet (222′) more or less, to the margin of Sixteen Mile Creek; thence southeasterly along the said margin, with the stream, to the northwesterly limit of The Toronto and Hamilton Highway aforesaid; thence south thirty-eight degrees (38°) west along the last-mentioned limit, two hundred and thirty-three feet (233′) more or less to the point of commencement, as shown coloured red on the Notice of Expropriation served on the Claimant, C. F. Bulmer, by the said Commission, which plan and description were registered in the Registry Office for the County of Halton, on the 30th day of May, A.D. 1923, as Number 8742.

The Claimant, C. F. Bulmer, claims as follows:

1. Rental of $200 per month, or per annum, $2,400; capitalized at ten years' purchase including	$24,000 00
Value of reversion and potentialities for increased rent estimated at	4,000 00
	$28,000 00
Less estimated value of property after expropriation of 50 feet.	5,000 00
Total estimated loss	$23,000 00
2. His costs and incidental to these proceedings;	
3. And such other relief as to the arbitrators may seem just;	
and	
The claim of Bulmers, Limited, is as follows:	
1. Rental of six amusement devices for the months of May, June, July and August, at $50.00 each per month	$1,200 00
2. Rental of canoes, boats, and fishing tackle for season	1,500 00
3. The hotel has six guest apartments; estimated rental of rooms to guests during the summer season, say three rooms always let for 110 days at $3.00 per day	900 00
4. Catering, sale of refreshments, meals, ice cream, etc., and dancing indoors during winter months	2,500 00
	$6,100 00
The Claimant's claim:	
1. Damages for change of grade and loss of parking space	$2,000 00
2. Damages for loss of rent, etc., set out in paragraph 7	2,565 00
3. Damages for loss of year's business (paragraph 8)	6,100 00
4. Permanent loss (paragraph 9), being nine years at $1,000 per year	9,000 00
	$19,665 00
5. Its costs of these proceedings.	

We viewed the lands in question in the presence of Counsel for all parties, both before and after the construction of the fill at the west end of the new high level bridge before referred to.

It would appear that the Claimant, C. F. Bulmer, purchased from Miss Jane Miller Glass the property now known as the Bulmer property, located at the corner of Colborne Street (Highway) and Forsyth Street, in the Town of Oakville, on or about the 26th day of May, A.D. 1919, for the sum of $3,250.

In April, 1920, he started building operations for the erection of a brick hotel or roadhouse, 40′ 6″ x 63′, with a 10′ verandah, and a frame boathouse, 18′ 2″ x 36′ 3″, as described on plan, Exhibit 6.

On the date of expropriation of the land in question the brick hotel or road house was and still is in an unfinished condition, requiring an additional expenditure of from one to two thousand dollars to complete it fit for occupation. These are the only buildings on the Bulmer property.

On the 15th day of January, A.D. 1923, C. F. Bulmer leased the property to Bulmers, Limited, for and during the term of five years, to be computed from the first day of May, A.D. 1923, at a rental of Two Hundred dollars ($200.00) per month, payable in advance on the first day of every month; the lease to be renewable at the end of five years. The lessee has never entered into possession, and none of the conditions specified in the lease appear to have been carried out by the lessee or lessor up to date of the taking of the evidence herein.

It would also appear that C. F. Bulmer is the beneficiary holder of practically all the stock of Bulmers, Limited; his wife, daughter and son hold a few shares, and two or three shares are held by the managers. Three thousand shares were issued with a par value of $10.00. (See page 33 of his evidence.)

Miss Jane M. Glass is the Secretary-Treasurer of the above company. (See page 108 of her evidence.)

In the aforesaid lease it is specified that the above Company "will not carry on any business other than the business of a dancing and refreshment house."

The Bulmer property may be described as having 233 feet facing on the Toronto and Hamilton Highway, then along the river northerly about 208 feet, then along the northerly limit westerly about 200 feet to Forsyth Street, then along Forsyth Street to the Highway, roughly a parcel of land 233′ x 208′ upon which there is erected the hotel or roadhouse and boathouse before mentioned.

On the 29th day of May, A.D. 1923, The Toronto and Hamilton Highway Commission, through their engineer, Mr. Cummiford, offered Mr. C. F. Bulmer the sum of One Thousand dollars ($1,000.00) for the land taken, which offer was rejected. (See Exhibit 30.)

The quantity of land taken is a strip 50 feet wide fronting on Forsyth Street, by 233 feet running parallel with The Toronto and Hamilton Highway, thereby reducing the width of the Bulmer property from about 208 feet to about 158 feet.

Old Grade on Highway.

The grade of the Highway prior to the alterations to the bridge commencing at the end of the 50-foot pavement, where the pavement laid through the Town of Oakville ends at point 750+93, and from the latter to point 751+50, 43 feet, is 7.9%, and at 50-foot intervals westward of 751+50, it is: Next 50 feet, 8.6%; next 50 feet, 7.8%; next 50 feet, 7.0%; next 50 feet, 5.6%; next 50 feet, 5.9%; next 50 feet, 4.6%; next 50 feet, 3.2%.

And across the bridge for 85.5 feet the grade is 0.7%. Next 50 feet, 2.8%; next 50 feet, 3.0%; next 50 feet, 1.2%; next 50 feet, 5.8%; next 50 feet, 2.8%, next 50 feet, 4.4%; next 50 feet, 5.0%.

To the west side of Forsyth Street the grade continues to rise beyond this point westward.

New Grade on Highway.

Starting at the end of Navy Street, running westward 225 feet the grade is 3%, then running on to a level grade elevation 278, which continues across the new bridge westerly to Station 762. This level grade continues for some distance past Forsyth Street without any change.

Old Grade on Forsyth Street.

Starting at the intersection of the centre line of Forsyth Street and the centre line of the Highway for the first 50 feet northerly a minus grade of 2%, and at 50-foot intervals it rises as follows: Next 50 feet, 2.2%; next 50 feet, 3.2%; next 50 feet, 4.8%; next 50 feet, 5.4%; next 50 feet, 2.8%; next 50 feet, 6.2%; next 50 feet, 6.4%.

Proposed New Grade on Forsyth Street.

Starting at a point 150 feet north of the centre line of the Highway, or 110 feet north of the boundary line, or 75 feet south of the centre line of the Bulmer Building, the grade will start and rise going south to the Highway on a 6% grade.

Highway.

	Station No.	Elevation of Bulmer's land	Elevation of top of old road	Elevation of top of new road	Difference of elevation of old and new road	Bulmer's land below old road	Bulmer's land below new road
West end of bridge..	757+00	248.6	258.5	278.0	19.5	10.7	30.2
	757+50	250.9	259.9	278.0	18.1	9.0	27.1
	758+00	251.3	261.4	278.0	16.6	9.3	25.9
	758+50	254.8	262.0	278.0	16.0	8.0	24.0
	759+00	259.5	264.9	278.0	13.1	5.9	19.0
Forsyth Street.....	759+50	265.5	266.3	278.0	11.7	0.00	11.7
	760+00	.....	268.5	278.0	9.5	.....	.....

These figures show the levels of the Bulmer property as it was before the construction of the new bridge was commenced, and their relation to the levels of the old and new roadway from the west end of the bridge westward.

Forsyth Street North.

	Station No.	Elevation of Bulmer's land	Elevation of top of old road	Elevation of top of new road	Difference of elevation of old and new road	Bulmer's land below old road	Bulmer's land below new road
Highway.....	0+00	265.0	267.4	278.0	10.6	2.4	13.0
	0+50	265.0	266.4	276.8	9.4	1.4	10.8
	1+00	265.0	267.5	272.8	5.3	2.5	7.8
	1+50	265.0	269.1	269.8	0.7	4.1	4.8

The above elevation of 265 is taken from Exhibit 31, it being the closest line of elevation parallel to Forsyth Street. It may be noted, however, that the low land descends from this point to elevation 248.6, located on the bank of "Sixteen Mile Creek."

The width of the old roadway (on the Highway) was from 18 to 20 feet, macadam with tarvia treatment, with an old, inadequate and unsafe bridge 16 feet wide.

The width of the new bridge, inside measurement, is 42 feet, between curbs 30 feet, with a space of six feet on each side for sidewalks.

The length of the new bridge over all is 237 feet.

The height of the floor of the new bridge is 19½ feet above the floor of the old bridge.

The width of the fill west of the cement bridge to be 42 feet on the top with slopes dropping approximately one to one and a half feet.

The width of the fill east of the cement bridge will be the same.

The length of the fill west of the cement bridge has been given as 472 feet; 455.75 might be nearer the actual length of this fill.

The length of the fill east of the cement bridge has been given as 436 feet, approximately, in both cases.

The depth of the fill will be approximately 17½ feet on the centre line on the west end of the bridge, becoming shallower as you proceed westerly.

The old driveway into the Bulmer property entered the low lands at the corner of Forsyth Street and the Highway. Since the expropriation proceedings were commenced the Highway Commission have suggested an entrance to the low lands by a 10-foot driveway down through the expropriated property at the corner of the Highway and Forsyth Street, with a 13% grade, and an alternative driveway on Forsyth Street at the foot of the 6% grade, and down into the low lands over a 14-foot driveway with a 10% grade. The Highway Engineer favours the latter suggestion.

Values as given by the Claimants' Witnesses.

J. P. Lawrison, Real Estate Broker.

He considered $200.00 a month a fair rental for the first five years; after that he would double the rent. At a rental of $2,400 a year the property, he thought, should be worth $20,000 or $22,000, and that he would rather give $25,000 for it before expropriation than $5,000 after.

He valued the lease for the first five years at $6,000, and after the expropriation as not being worth five cents, or a liability.

William James Davey, Real Estate Valuator:

He would expect an average rental of $400.00 a month from the premises.

Before expropriation he would value the property at $25,000—$15,000 for the buildings and $10,000 for the land. After expropriation, $5,000.

The value of the lease he places at $6,000 before the expropriation; after, not worth half, or a liability.

He believes ten per cent. would be a fair percentage on a man's investment.

William McDonald.

He valued the rental value at $325.00 a month, or per year at $3,900.00 before the expropriation as a going amusement park, and the lease for a period of five years as being worth $6,000.00.

After expropriation he valued the buildings, which would require some changes, and what is left of the land, at $5,000.00, and that they should bring $50.00 rental for the main building and $10.00 a month for the boathouse.

That the property as deed property prior to the expropriation was worth $24,000.00.

That the frontage on the Highway was worth at his lowest estimate $40.00 a foot with a depth of 110 feet, and allowing for a lane of 10 feet, worth $9,320.00. The building, $12,000.00; the boathouse, $1,800.00, and the balance of the land at $880.00, making in all $24,000.00.

He believed the property would be the next property to develop commercially for a row of stores on the Highway frontage 233 feet, allowing for a lane of 10 feet and a depth of 110 feet, without any consideration of the back portion of the land on Forsyth Street. He disposed of the Forsyth Street frontage as not being worth more than one dollar or so a foot, on account of being practically waste land.

He was asked if he had purchased any property in Oakville up to date, to which he answered "No."

Mr. McDonald did not qualify as an amusement expert.

Values as given by the Respondents' Witnesses.

In the evidence given by William P. Davis, he quotes the prices obtained for property adjacent to the Bulmer property:

Lot No. 9 on the southwest corner of Forsyth Street and Colborne Street diagonally across from the Bulmer property was sold, in 1922, for $2,500; a two-storey stucco house, 90 feet on the highway, with a depth of 100 to 110 feet. Land per foot $8.00 to $9.00, good high land. (Pages 85 to 87.)

Lot No. 10, adjoining the above, storey and a half roughcast house, stucco (two years ago), price $2,800; 75 feet on Colborne Street, depth 104 to 116 feet, a little over $13.00 a foot. (Pages 87 to 88.)

Lots Nos. 11 and 12, the southeast corner of the Highway and Chisholm Street, vacant land, were sold for $2,500, 150 feet on Colborne Street, about two years ago. It is very nice high land; it is worth $10.00 a foot. (Page 88.)

Lots on Chisholm Street and running south from the Highway are worth from $7.00 to $10.00 a foot. (Page 88.)

Lot 10, Block 108, on the east side of Forsyth Street south of the Highway, but fronting thereon, with frame house worth $1,000. (Page 89.) This property was bought for Highway purposes.

Lot 9, Block 108, was $5.00 a foot. (Page 89.)

In regard to the 50 x 233 feet of land in question, Mr. Davis places its value at $750.00, on account of its depth over and above the usual sized lots of 104 or 110 feet, equalling $15.00 a foot for the 50-foot frontage on Forsyth Street.

Thomas R. Jarvis.

Lot No. 2, Block 65, being on the north side of the Highway and directly west of Kerr Street, had this lot for sale at $10.00 a foot; price has gone up since completion of high level bridge. (Page 411.)

Lot No. 4, Block 65, on the northeast corner of Colborne Street and Brant Street, a residential lot sold in October, 1923, at $10.00 a foot. (Page 411.)

Fair value per foot frontage for lands on Forsyth Street, situated where the high lands of the Bulmer property are, would be $10.00 a foot. This could be obtained for the higher land; he did not think anything more than that could be obtained. (Page 410.)

Fair value for the 50-foot strip expropriated in May, 1923, is $500.00.

Walter Ward Price.

Value of the 50-foot strip expropriated, $8.00 to $10.00 a foot, $400.00 or $500.00. (Page 364.)

When asked his opinion of the Highway frontage for store purposes, keeping in view the location and difference in grade of the old Highway, and the levels of the Bulmer property, his answer was "no use at all, most unsuitable." (See Exhibit 13 as to location of the above lots.)

The value placed upon the land taken of $40.00 per foot, by Mr. McDonald, for store purposes, means a price equal to $9,320.00 for a little over the half of Mr. Bulmer's land, and nearly three times more than the whole property cost Mr. Bulmer in 1919, namely, $3,250.

In regard to the experience of Mr. Lawrison, he was asked the following questions:

To Mr. Fasken: Can you give us any experience resembling the proposition in question in this case? A. I do not think I can.

Q. You did not as a matter of fact deal with any restaurants or summer hotels, or places of amusement on the Highway? A. No.

Q. Nor in the vicinity of the Highway? A. I have had some for sale, but did not sell it.

Q. I said "or in the vicinity"; your answer covers that as well? A. Yes. (Page 197.)

The experience of WILLIAM JAMES DAVEY in regard to sales on the Highway appear to be only two, a small home at Stop 34, price $3,000, and a barber shop at Stop 26. He exchanged a vacant store property at Stop 26 for garden land north of the city; the latter stops are in the vicinity of Long Branch, on the Highway.

It would appear that the value placed upon the lands and buildings by the witnesses for the Claimant was based very largely upon prospective profits of the character mentioned in the evidence herein.

The evidence decidedly shows a remarkable difference between the experience in Oakville of the land valuators called by the Claimants and those called by the Respondents; the latter are all three residents of Oakville, two of whom are doing and have done a real estate business in Oakville; the third carries on a real estate business in Toronto, but had some business experience in Oakville as a real estate broker.

The evidence to which we feel we are justified in attaching the most importance is that given by the witnesses for the Respondents. Of these witnesses, William P. Davis places the highest value upon the land taken, namely, $750.00. This valuation, however, is based upon the frontage being on Forsyth Street and the flankage on the Highway. We believe that something more should be allowed on account of the land having what might be termed a frontage on the Highway, and for this reason we allow for the land expropriated $1,000.00.

On account of the raising of the level of the Highway the remainder of the low-lying land will be damaged; such remaining land has an area of a little more than that of the land expropriated, and on this account we allow $750.00.

To obtain access to the low-lying lands not expropriated from Forsyth Street it will be necessary to construct an entrance or a driveway. The engineer for the Respondents has stated that it would cost $200.00 for such construction. We are allowing $200.00 and an additional amount of $50.00 to cover contingencies or any other unforeseen expenditure that may be incurred by reason of its construction.

We also find that the value of the lands and buildings is reduced by Two Thousand dollars ($2,000) by reason of the expropriation; and in making our Award herein we have to take into account the fact that the Claimant, C. F. Bulmer, might not be able under a bona fide lease to obtain as high a rental for his property as he might have obtained before expropriation.

We award the Claimant, C. F. Bulmer, the sum of Two Thousand dollars ($2,000), and ten (10) per cent. for compulsory taking of the land in question, together with interest at five per centum per annum on $2,200.00 from the date of expropriation, the 30th day of May, A.D. 1923.

The amount of the Award to be paid into Court in order that the property expropriated may be discharged from the mortgage now subsisting thereon, and from any lien there may be upon such land for taxes.

The Claimant, C. F. Bulmer, is to be paid his costs by the Respondents on the basis of the High Court scale, such costs to be taxed by the chief taxing officer at Toronto.

So far as regards the claim of Bulmers, Limited, against the Respondents, we do not award anything to the Claimants.

From the evidence we cannot find that these Claimants are entitled to any damages for loss of profits as claimed as such damages would appear to be entirely speculative.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Dated at Toronto the 28th day of April, A.D. 1924.

Between C. F. Bulmer, Claimant; and The Toronto and Hamilton Highway Commission, Respondents.

Award.

Whereas, under the provisions of "An Act respecting The Toronto and Hamilton Highway Commission," being Chapter 18 of the Statutes of the Province of Ontario, passed in Session held in the fifth year of the Reign of His Majesty, King George the Fifth, and of "An Act respecting the Public Works of Ontario," being Chapter 35 of the Revised Statutes of Ontario, 1914, the said Commission duly gave Notice of Expropriation to C. F. Bulmer of the lands therein, and described as follows:

"All and singular that certain parcel or tract of land and premises, situate, lying and being in the Town of Oakville, in the County of Halton, and Province of Ontario, being composed of a part of Block 110, according to the Town Plot of Oakville, and which said parcel is more particularly described as follows:

"Commencing at the intersection of the northwesterly limit of The Toronto and Hamilton Highway (formerly called Colborne Street), being the southeasterly limit of said Block 110, with the northeasterly limit of Forsyth Street; thence north fifty-one degrees and thirty-one minutes (51° 31′) west, along the said limit of Forsyth Street, fifty feet (50′); thence north thirty-eight degrees (38°) east, parallel to the said limit of the Toronto and Hamilton Highway, two hundred and twenty-two feet (222′) more or less, to the margin of Sixteen Mile Creek; thence southeasterly along the said margin, with the stream, to the northwesterly limit of the Toronto and Hamilton Highway aforesaid; thence south thirty-eight degrees (38°) west, along the last-mentioned limit, two hundred and thirty-three feet (233′) more or less, to the point of commencement."

And notice that they desired the compensation for such lands to be fixed by The Ontario Railway and Municipal Board.

Now, the said The Ontario Railway and Municipal Board, having taken upon itself the burden of the Arbitration to fix such compensation as aforesaid, and having heard and duly considered all the allegations and evidence of the said the Toronto and Hamilton Highway Commission, and of the said owner of the said lands, and all parties interested in the said lands, appearing before the said Board, concerning the said matters and things so referred to its arbitrament as aforesaid, does hereby make and publish its findings and award as to all the said matters and things as follows:

1. The Board finds and awards the value of the lands expropriated by the said The Toronto and Hamilton Highway Commission to be..... $1,000 00
2. The Board finds and awards that the amount of injurious affection of the land retained, is..... 750 00

3. The Board finds and awards that the said The Toronto and Hamilton Highway Commission should pay for the construction of a driveway into the low lands of the property in question the sum of..... $250 00

$2,000 00

4. The Board finds and allows ten per cent. on the amount of its above-mentioned award for compulsory expropriation of the said property, amounting to..... 200 00

$2,200 00

5. And the Board finds and awards that interest at the rate of five per cent. per annum on $2,200.00 from the 30th day of May, A.D. 1923, should be paid by the said The Toronto and Hamilton Highway Commission to the persons entitled thereto.
6. And the Board finds and awards that the Claimant, C. F. Bulmer, is to be paid his costs by the said The Toronto and Hamilton Highway Commission on the basis of the High Court scale, such costs to be taxed by the chief taxing officer at Toronto.
7. The Board orders and directs that the said The Toronto and Hamilton Highway Commission shall pay into Court the amount of the above Award, in order that the property expropriated may be discharged from the mortgage now subsisting thereon, and from any lien there may be upon such land for taxes.
8. And the Board directs that $110.00, its fee for Law Stamps herein, be paid by the said The Toronto and Hamilton Highway Commission.

In witness whereof the Vice-Chairman and Commissioner of the said The Ontario Railway and Municipal Board, being the members thereof before whom the said Arbitration was heard, have hereto set their hands and caused to be affixed hereto the seal of the said Board, this twenty-eighth day of April, A.D. 1924, at the City of Toronto, in the Province of Ontario.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

(Seal)

(Sgd.) J. A. ELLIS,
Commissioner.

Between Bulmers, Limited, Claimants; and The Toronto and Hamilton Highway Commission, Respondents.

AWARD.

Whereas under the provisions of "An Act respecting The Toronto and Hamilton Highway Commission," being Chapter 18 of the Statutes of the Province of Ontario, passed in the Session held in the Fifth year of the Reign of His Majesty King George the Fifth, and of "An Act respecting the Public Works of Ontario," being Chapter 35 of the Revised Statutes of Ontario, 1914, the said Commission duly gave notice of Expropriation to C. F. Bulmer of the lands therein, and described as follows:

"All and singular that certain parcel or tract of land and premises, situate, lying and being in the Town of Oakville, in the County of Halton, and Province

of Ontario, being composed of a part of Block 110, according to the Town Plot of Oakville, and which said parcel is more particularly described as follows:

"Commencing at the intersection of the northwesterly limit of The Toronto and Hamilton Highway (formerly called Colborne Street), being the southeasterly limit of said Block 110, with the northeasterly limit of Forsyth Street; thence north fifty-one degrees and thirty-one minutes (51° 31′) west, along the said limit of Forsyth Street, fifty feet (50′); thence north thirty-eight degrees (38°) east, parallel to the said limit of The Toronto and Hamilton Highway, two hundred and twenty-two feet (222′) more or less, to the margin of Sixteen Mile Creek; thence southeasterly along the said margin, with the stream, to the northwesterly limit of The Toronto and Hamilton Highway aforesaid; thence south thirty-eight degrees (38°) west, along the last-mentioned limit, two hundred and thirty-three feet (233′), more or less, to the point of commencement."

And notice that they desired the compensation for such lands to be fixed by The Ontario Railway and Municipal Board;

And whereas the Claimants, Bulmers, Limited, made a claim as lessees of the lands above described for compensation, which claim is set out in the Opinion of the Board herein;

Now, the said The Ontario Railway and Municipal Board, having taken upon itself the burden of the Arbitration to fix such compensation as aforesaid, and having heard and duly considered all the allegations and evidence of the said The Toronto and Hamilton Highway Commission, and of the said owner of the said lands, and all parties interested in the said lands, appearing before the said Board, concerning the said matters and things so referred to its arbitrament as aforesaid, does hereby make and publish its findings and award as to all the said matters and things as follows:

The Board does not award anything to the Claimants, Bulmers, Limited, in respect of said Claim, and as to costs the Board makes no award.

In witness whereof the Vice-Chairman and Commissioner of the said The Ontario Railway and Municipal Board, being members thereof before whom the said Arbitration was heard, have hereto set their hands and caused to be affixed hereto the seal of the said Board this 28th day of April, A.D. 1924, at the City of Toronto, in the Province of Ontario.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Seal)

(Sgd.) J. A. Ellis,
Commissioner.

Procedure File 8893.

Between Hon. Chas. S. Hyman, Appellant; and The Corporation of the City of London, Respondent.

(Assessment Appeal.)

Jan. 4th. Notice of Appeal filed.

Feb. 26th. Hearing, pursuant to Appointment, 10 a.m.; 3 to 4.30 p.m. at Court House, London. Judgment reserved.

Mar. 6th. Judgment delivered.

Mar. 10th. Draft Order filed.

Mar. 11th. Order issued dismissing appeal.

JUDGMENT.

The Board, having considered the material filed, and arguments adduced on these appeals, finds no sufficient reasons to reverse the Judgment of the Learned County Judge.

The Board will make no Order as to costs, except that the Appellant in each case shall pay $15 for Law Stamps, the Board's tariff fee.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, March 6th, 1924.

PROCEDURE FILE 8894.

Between William F. D. Jarvis, Appellant, and The Corporation of the City of London, Respondent.

(Assessment Appeal.)

Jan. 4th. Notice of Appeal filed.

Feb. 26th. Hearing, pursuant to appointment, 10 a.m.; 3 to 4.30 p.m. at Court House, London. Judgment reserved.

Mar. 6th. Judgment delivered. (See P.F. 8894.)

Mar. 10th. Draft Order filed.

Mar. 11th. Order issued.

PROCEDURE FILE 8895.

Between The Corporation of the City of Ottawa, Appellant, and Dorothy Fulford Hardy, Respondent.

(Assessment Appeal, $100,000.)

Jan. 4th. Notice of Appeal filed.

Jan. 25th. Hearing, pursuant to appointment, 10 a.m. to 12 m., at Council Chamber, City Hall, Ottawa. Judgment reserved.

Feb. 11th. Judgment delivered, dismissing appeal.

Feb. 16th. Approved draft Order filed.

Feb. 18th. Order issued.

Apr. 3rd. Appeal dismissed by Appellate Division. See *Globe* of this date.

OPINION OF THE BOARD.

This is an application to the Board by way of appeal from a decision of His Honour Judge O'Brien of the County of Carleton, delivered on the 28th day of December, A.D. 1923, whereby the said Judge allowed the appeal of the said Dorothy Fulford Hardy from a decision of the Court of Revision of the City of Ottawa confirming an assessment for income of $100,000 entered against her upon the Assessment Rolls of the said City, prepared in the year 1923 for the purposes of municipal taxation in the year 1924.

Having heard the evidence and argument pursuant to appointment herein the Board finds that the Respondent resides in the Township of Elizabethtown and is assessable for income under "The Assessment Act" in that Municipality.

The Appeal will be dismissed. There will be no costs to either party, but the Appellant will pay $15.00 in Law Stamps on the Order of the Board.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, February 11th, 1924.

PROCEDURE FILE 8907. (P. 465.)

In the matter of the application of the Town of Timmins, under section 18 (2) of "The Consolidated Municipal Act, 1922," for annexation thereto of part of the Township of Mountjoy (south half of Lot 1, Con. II; northwest quarter of north half of Lot 1, Con. II; and part northeast quarter of north part of Lot 2, Con. II).

Jan. 11th. Application and material filed.

Mar. 3rd. Objection by Fesserton Lumber Co. having been filed, new By-law (No. 260) omitting lands of said Company, filed.

Apr. 23rd. Hearing, pursuant to appointment, 11 to 11.35 a.m., at Board's Chambers. Application granted; Applicant's Solicitor to redraft Order and submit to Solicitors for Township Tisdale for approval.

May 3rd. Approved draft Order filed.

May 6th. Order issued (for form of Order see files of Board).

PROCEDURE FILE 8908.

Application by the City of Toronto, under section 399*a* of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 9874—Restricted Area on Walmer Road, between Bloor Street and Bernard Avenue.

Jan. 12th. Application (letter) and material filed.

Jan. 24th. Hearing, pursuant to appointment, 10.30 to 10.45 a.m. Application granted. Applicant's Solicitor to draft Order.

Jan. 28th. Draft Order filed.

Jan. 29th. Order issued. (For form of Order see files of Board.)

PROCEDURE FILE 8917.

Between Kingsmills, Limited, Appellants, and The Corporation of the City of London, Respondent.

(Assessment Appeal.)

Jan. 19th. Notice of Appeal filed.

Feb. 26th. Hearing, pursuant to appointment, 10 to 11.30 a.m., at Court House, London. Judgment reserved.

Mar. 3rd. Judgment delivered. Appeal allowed.

Mar. 11th. Approved draft Order filed.

Mar. 11th. Order issued. (For form of Order see files of Board.)

JUDGMENT.

This is an appeal by Kingsmills, Limited, against a decision of His Honour Judge Macbeth.

The Board, having heard and considered the evidence adduced on behalf of, and the arguments of Counsel for, the parties herein; and having viewed the premises in question, finds that Kingsmills, Limited, is not carrying on the business of what is known as a departmental store, or of a retail merchant dealing in more than five branches of retail trade or business in the same premises, or in separate departments of premises under one roof, or in connected premises.

The Board will make no Order as to costs except that the Respondent pay the Board's tariff fee of $15.00 for Law Stamps herein.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, March 3rd, 1924.

PROCEDURE FILE 8918.

Between The Corporation of the City of Hamilton, Appellant, and Cyrus A. Birge, Respondent.

(Assessment Appeal.)

Jan. 19th. Notice of Appeal filed.

Feb. 4th. Hearing, pursuant to appointment, 3 to 4.30 p.m., at Board's Chambers, to hear argument as to Board's jurisdiction. Judgment reserved. (See Reporter's Notes.)

Feb. 7th. Opinion of Board (that it has not jurisdiction herein) delivered. Appeal from this Board abandoned. (See 26 O.W.N. 226; 55 O.L.R. 448.)

OPINION OF THE BOARD.

1. This is a proposed Assessment Appeal from the decision of His Honour Judge Evans, delivered in open court on the 24th day of October, A.D. 1923.

2. No Notice of Appeal was served upon the Clerk or Assessment Commissioner of the City of Hamilton, as set forth in section 80 of The Assessment Act.

3. The Clerk of the Municipality did not notify the Secretary of The Ontario Railway and Municipal Board of any Notice of Appeal herein.

4. A Notice of Appeal was served on the Respondent's Solicitor by the Solicitor for the Appellants on the 16th day of November, A.D. 1923.

5. The Affidavit of Edwin D. Cahill, Esquire, K.C., Counsel for the Respondent, sworn to on the 4th day of February, A.D. 1924, states that a "Special case signed by the said Judge on the 16th day of January, A.D. 1924, which as appears in Exhibit 'A' was at the request of Counsel for the Appellants herein, and with the consent of Counsel for the Respondent, herein to be stated for the purposes of an appeal direct to a Divisional Court under section 81 of The Assessment Act."

6. On the 19th day of January, A.D. 1924, the agents for the Appellants' Solicitor filed with the Secretary of The Ontario Railway and Municipal Board a copy of the Notice of Appeal which had been served on the Solicitor for the Respondent on the 16th day of November, A.D. 1923, together with an affidavit of service of such Notice.

7. The Board had doubts as to its jurisdiction and appointed a date to hear argument on the question of jurisdiction and did hear Counsel for both parties on Monday, the 4th day of February, A.D. 1924.

8. After hearing argument and having considered the material filed, the Board has concluded that it has no jurisdiction to entertain the proposed appeal.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, February 7th, 1924.

PROCEDURE. FILE 8933.

Application by Moise Morand and others, Owners, under "The Planning and Development Act," for approval of plan of part north half of Farm Lot 14, Con. V, Township of Sandwich South, County Essex.

Jan. 23rd. Application and material filed.

Feb. 4th. Hearing, pursuant to appointment, 11.15 to 11.30 a.m., at Board's Chambers. Approval of Board withheld subject to filing of consent by Essex Border Utilities Commission. (See Reporter's Notes.)

Feb. 12th. Consent of Essex Border Utilities Commission filed.

Feb. 15th. Plan approved and certified.

PROCEDURE FILE 8941.

Between Messrs. Smallman & Ingram, Appellants, and The Corporation of the City of London, Respondent.

(Assessment Appeal.)

Jan. 25th. Notice of Appeal filed.

Feb. 26th. Hearing, pursuant to appointment, 10 a.m.; 11.30 a.m. to 1.30 p.m., at Court House, London. Judgment reserved.

Mar. 3rd. Judgment delivered, dismissing appeal.

Mar. 10th. Draft Order filed.

Mar. 11th. Order issued. (For form of Order see files of Board.)

JUDGMENT.

This is an appeal by Smallman & Ingram, Limited, against a decision of His Honour Judge Macbeth.

The Board, having heard and considered the evidence adduced on behalf of, and the arguments of Counsel for, the parties herein; and having viewed the premises in question, finds that Smallman & Ingram, Limited, are carrying on the business of what is known as a departmental store, and of a retail merchant dealing in more than five branches of retail trade or business in the same premises.

The Board will make no Order as to costs, except that the Appellant pay the Board's tariff fee of $15.00 for Law Stamp herein.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, March 3rd, 1924.

PROCEDURE FILE 8945.

Application by the Town of Oshawa, under section 20 of "The Consolidated Municipal Act, 1922," for the erection of the said Town into a City.

Jan. 26th. Application and material filed.

Feb. 19th. Hearing, pursuant to appointment, 10 a.m. to 1.15 p.m., Council Chamber, Town Hall, Oshawa. Application granted, to take effect at 12 p.m. on March 8th, 1924.

Feb. 27th. Draft Order filed.

Feb. 29th. Order issued.

Apr. 7th. Amending Order issued. (For form of Order see files of Board.)

PROCEDURE FILE 8954.

Application by James Henry Street, Owner, under "The Planning and Development Act," for approval of plan of part Lot 34, Con. IV, Township of Saltfleet, County Wentworth.

June 30th. Application and material filed.

Feb. 18th. Hearing, pursuant to appointment, 11 to 11.30 a.m., at Board's Chambers. Plan to be amended as directed by the Board. (See Reporter's Notes.)

Apr. 9th. Amended plan produced and approved and certified.

Procedure File 8963.

Application by The Erie Telephone Co., Ltd., under section 88 of "The Ontario Telephone Act, 1918," for authority to increase charges for service.

Feb. 5th. Application and material filed.

Apr. 8th. Hearing, pursuant to appointment, 11 a.m. to 1 p.m., Town Hall, Hagersville.

Apr. 25th. Report of Chairman, under section 9, Chap. 186, R.S.O., filed and adopted.

May 15th. Order. (For Order, see files of Board.)

Report.

We find this Company with a capitalization of $46,805.27. The actual paid-up capital is $27,340, and they owe on notes about $11,000 and have borrowed from the bank $8,000 some odd.

Most of the shares are held by the directors and these directors, in order to carry on the business of the Company, have had to borrow money and they have had to pledge their own credit by way of a guarantee with the bank, and it is a serious thing to assume an obligation of $8,000, but that is the position of affairs.

In 1920 they suffered a loss by reason of a sleet storm that destroyed part of their plant. That shows the precarious character of this business; a large amount of capital is spread out over the country, subject to every wind that blows, and at times this climate of ours is not very kind in its treatment of telephone wires. It is said this Company met with a loss of $6,000 owing to that sleet storm, and that is a very serious loss for a small company.

Another thing to be borne in mind is that no dividends were paid in 1922 or 1923. If adequate provision had been made for depreciation, of 5 per cent. on plant value, they would show a deficit. The plant and real estate of the Company is worth $79,264; their capitalization is only $46,000; the difference between these two figures is accounted for by the fact that the Company has invested its profits in extensions, so that the plant is now worth $33,000 more than the amount actually invested as capital.

The question is, what should this Board do in the light of the facts which have been brought before it to-day? Are we to leave this Company to hobble along, short all the time and with no prospect of giving a better service in the future? I may say that the policy of this Board has been always, where a company was managed prudently and carefully, to allow a fair sum of money for depreciation and a reasonable sum as a return on the investment; 7 per cent. is not too much. None of you would care to lend your money on so precarious a property as a telephone company; it is very different from a farm, which is practically indestructible. Our policy has been to treat these companies with a reasonable amount of fairness in respect to the approval of rates.

It may be asked, are they carrying on their business prudently? Are they carrying on their operations according to the highest standard of telephone skill? You must bear in mind that these rural companies have grown up, and

have been under the management of men who have had to learn from their experience, and if you are to have telephone service at a moderate rate you must be content to take the system with all its infirmities. It is impossible for these rural companies to have skilled managers like the Bell Telephone Company; they have enormous resources in money and men, and we cannot expect that these rural companies will attain to the same degree of perfection as the Bell Company. That being so, we must accept their statement as audited, and we find that there is a deficit of $2,249.95. It can only be met in one way; there is only one source of revenue, that is the earnings of the Company from its subscribers. The Company have asked for $5,767—they have asked for a great deal more, hoping they would get something. It seems to me, and Mr. Dagger, our telephone adviser, agrees with me, that this Company should be placed in funds to meet this deficit, and a little more than half that sum can be raised by an increase of, say, one-half of what they say they require. We say we will approve of an increase of half of the amount they ask, namely, $2,883.50; that will be sufficient to meet a deficit of $2,249.

If we did not grant some increase what would be the consequence? Unless the Company can effect very stringent economies they would simply go limping along, giving you an unsatisfactory service. Under the Order we approve now the Company will have from year to year a depreciation fund of $3,963.72; that is approximately $4,000 available to rehabilitate the system. That should bring the plant back into a state of efficiency such as it was in before the sleet storm broke upon it.

That is the conclusion which I have reached, and I will consider it my duty to report to the Board at Toronto that the application of the Company be dealt with in this way, that is to say, that the increase be half what they ask for, that is, the $3.00 increase will be $1.50 and where they have asked $6.00 it will be $3.00.

I don't know whether the Company has endeavoured, instead of issuing stock, to sell bonds, which of course would be in the nature of a mortgage on the whole plant?

MR. STERNAMAN: We never have.

THE CHAIRMAN: Might that not be done? The bonds run for ten years, and you could wipe out that debt.

We have found that these rural telephone systems have been started by a few local men who have put their money into the enterprise; very often it is the local doctor, or two or three merchants, usually in the villages and towns. As soon as the value of telephone service has been appreciated the people are anxious to get service, and the company soon grows. One peculiarity which has very much impressed me in connection with rural telephone service is that after they have arrived at a certain point in capital invested their progress seems to become arrested. For instance, when this Company only wanted $4,000 or $5,000, it was an easy matter to get that amount of money. When the system becomes so large that more money is required it is very difficult to secure sufficient funds to carry on the enterprise. When the system begins to wear out the original promoters do not want to put any more money in, and this Company has found it impossible to sell any more stock, and I think you will agree with me that selling stock in a company that has not paid dividends for three years is a hopeless undertaking. They have had to borrow money to keep this Company going. This Company has five exchanges—ordinary systems of this size have only one or two; that arises from the fact that you have a number of important centres which have to be connected up.

After the best consideration that I have been able to give this matter, that is the conclusion I have reached, that this Company requires more money in order to carry on the enterprise; but the Company must understand that we will expect them to exert themselves to give a better service, and a service that will be satisfactory to the people. The complaints have not been numerous, but some have said they have had difficulty in getting their messages through. If the Board receives complaints we will arrange to have a sitting in this vicinity, and we will go thoroughly into the question of efficiency of the service, and we will send our expert from Toronto. It must be understood that where we increase the rates it is always on the understanding that the service will be improved. We do not give the increase merely for the purpose of benefiting the company—we give it in order that the subscribers may have a more efficient service.

Adopted as the basis of the Board's Order.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

April 25th, 1924.

Procedure File 8964.

Application by the Municipality of Morley, under section 88 of "The Ontario Telephone Act, 1918," for authority to increase charges for telephone service.

Feb. 4th. Application and material filed.

Dec. 8th. Hearing, pursuant to appointment, 10 to 10.30 a.m., Public Hall, Stratton. Additional assessment of $6.25 for 1925—July 1st to Dec. 31st, 1924, approved.

Procedure File 8968.

Application by the City of Toronto, under section 399a of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 9895—Restricted Area on Poplar Plains Crescent.

Feb. 6th. Application and material filed.

Feb. 25th. Hearing, pursuant to appointment, 11 to 11.15 a.m., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

Feb. 25th. Draft Order filed.

Feb. 26th. Order issued. (For form of Order see files of Board.)

Procedure File 8971.

Application by the Township of Scarborough, under Chapter 88, 13-14 Geo. V, Ontario Statutes, 1923, for approval of its proposed By-law No. 1260—to set apart Waterworks Area No. 3.

Feb. 6th. Application and material filed.

Feb. 25th. Hearing, 11.30 a.m. to 12 m., pursuant to appointment, at Board's Chambers. Adjourned *sine die*, to be reheard on application of Council for appointment. Same public notice to be given of any further hearing.

Procedure File 8976.

In the matter of the petition of U. R. Aitch, and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the Town of Timmins, of part of the Township of Tisdale (Rochester Townsite).

Feb. 8th. Petition, Resolution of Town of Timmins and Surveyor's description filed. (See also P. F. 8629, P. 449.)

Mar. 19th. Proof, that no objection filed to annexation.

Mar. 19th. Draft Order filed.

April 3rd. Approved draft Order filed.

April 5th. Order issued. (For form of Order, see files of Board.)

PROCEDURE FILE 9010.

Application by the City of Toronto, under subsection (2b) of section 399a of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 9920, amending its Restricted Area By-law No. 9188 (St. George Street from Bloor Street to Dupont Street), excepting therefrom Lot No. 33, plan 578.

Feb. 25th. Application and material filed.

Mar. 10th. Hearing, pursuant to appointment, 11 a.m. to 12.35 p.m., at Board's Chambers. Judgment reserved. (Board will consider Report of Proceedings in P.F. 7356 (*re* By-law 9188) and view *locus*. (See Reporter's Notes.)

Mar. 13th. Judgment delivered.

JUDGMENT.

On the hearing of this application Counsel referred to the proceedings and Judgment respecting the application for approval of By-law No. 8997—this Board's Procedure File 7356.

The Board, after hearing argument of Counsel, and the statements by interested parties, and having viewed the conditions at the northwest corner of Bloor and St. George Streets, and having considered the material filed on this application, and having referred to and considered the proceedings and Judgment above mentioned, is of the opinion that this application should not be granted.

The properties fronting on Bloor Street will now have a flankage of 200 feet on St. George Street, which the Board considers amply sufficient.

The Board makes no Order as to costs, except that the Applicant pay $10.00 for Law Stamps, the tariff fee herein.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree,

(Sgd.) J. A. ELLIS,
Commissioner.

Dated at Toronto, the 13th day of March, A.D. 1924.

PROCEDURE FILE 9028. (P. 466.)

Between The Canadian Building & Land Association, Ltd., Claimant; and The Ontario Department of Public Highways, Respondent.

Compensation for lands taken to widen Maple Avenue as part of the Hamilton-Niagara portion of the Provincial Highway.

Feb. 27th. Application filed.

May 16th. Notice, plan of expropriation, etc., filed by Department of Highways (including Notice signed by the Minister, under section 29, chap. 35, R.S.O.).

June 12th. Hearing, pursuant to appointment, 10 a.m. to 4 p.m., Court House, Hamilton. Judgment reserved.

June 20th. Reasons for Judgment and Award issued.

ARBITRATION.—REASONS OF THE BOARD.

The quantity of land expropriated is represented to be two hundred and forty-six one-thousandths of an acre (0.246) more or less, a twelve-foot strip of land on each side of Maple Avenue, as shown marked in red on Drawing No. 1468 filed herein, to provide a right-of-way 90 feet in width.

The Department having expropriated these lands of the Claimant, and the parties having failed to agree on the compensation to be paid by the Department, this application has been made to the Board under the Statutes described above to fix the compensation.

The parties agree as to the date of expropriation being the 30th November, 1921. They also agree as to the quantity of the land expropriated being equal to 120 feet frontage, and that the question of appreciation is to be set off against depreciation, so that it is just a question of the value of the land expropriated.

The Claimant claimed to be entitled to $15.00 a foot for a frontage of 130 feet, an amount equal to $1,800.00, plus interest at five per cent. from date of expropriation, with the allowance of a sum equivalent to ten per cent. of the value of the land to be added for compulsory taking.

Upon the question of the quantum of compensation for the lands taken, there is not a great difference in the estimate of value suggested by the witnesses. Those called by the Claimant contended that when the Highway went through on Maple Avenue sales fell off on King and Main Streets (the most northerly and southerly ends of the property). On these two streets lots were sold at $22.50 and $25.00 per foot frontage. Other lots, $15.00 for inside lots and $5.00 more for corner lots; the values then tapered down from the front row to $900.00, $700.00 and $640.00 for lots farther back in the subdivision, with these prices being adhered to ever since, except that on account of the Highway having been constructed on Maple Avenue the lots have been rearranged to face upon it instead of facing as formerly on Rosseau and Craigrayston and Walter Streets. The lots now on Maple Avenue are 46 x 108 feet, and are selling on the basis of $22.50 and $25.00 per foot frontage. The four witnesses called by the Claimant estimated the value of the 120 feet at $15.00 per foot frontage. Mr. J. P. MacGregor stated that "they had spent $4,000 in grading and paid Messrs. Crompton and Whitney ten per cent. for selling, so that their net price is $13.50; that they are not selling a foot now at less than $15.00, and an extra $50.00 at the corners."

On the other hand, for the Department, Mr. Milmine, a real estate dealer and valuator, estimated the value of the land taken at $8.00 per foot, and allowing five per cent. interest, and ten per cent. for forcible expropriation, thus making the value of the land taken $11.50 per foot frontage.

Mr. Crompton, real estate dealer and former agent in 1920 for the sale of the land in the subdivision in which the land in question is located, testified that inside lots were sold for $14.00, and corner lots for $15.00, deducting twenty-five per cent. for grading, survey, percentages for salesmanship, legal fees and collection.

Lots for which the Claimant obtained $15.00 per foot frontage, with twenty-five per cent. off, roughly $3.75, would realize the net amount of $11.25 per foot frontage. Values of adjacent lands were given by Mr. Milmine at prices lower than those quoted in the foregoing figures, but Mr. Crompton gave the prices of a number of actual sales he made at $14.00 per foot frontage and upwards for lots he sold in this subdivision.

In arriving at the net value of the lots in question there is a wide difference between the parties in regard to their method of deduction, one side claims ten

per cent. to cover cost of salesmanship, and the other twenty-five per cent. to cover cost of grading, survey, salesmanship and collection. We believe ten per cent. is too low, and twenty-five per cent. is too high; that such items as cost of "grading and survey," under the present circumstances should not be deducted in arriving at the net value of the 120-foot frontage.

We find, therefore, that twenty per cent. is a more equitable percentage, thereby making the net value of the land taken, namely 120-foot frontage, at $12.00 per foot, $1,440.00.

That ten per cent. be allowed for compulsory taking on the value of the land in question, and interest at five per cent. from the 30th day of November, A.D. 1921.

That the Claimant be allowed One Hundred and Fifty Dollars to cover the Claimant's costs in this Arbitration.

That there be a fee of fifteen dollars, the Board's tariff for Law Stamps herein, to be paid by the Department of Public Highways of Ontario.

(Sgd.) A. B. Ingram,
Vice-Chairman.

Toronto, June 20th, 1924.

I agree,

(Sgd.) J. A. Ellis,
Commissioner.

Award.

To All to Whom these Presents Shall Come:

The Ontario Railway and Municipal Board send greeting.

Whereas, under the provisions of "An Act to provide for a Provincial Highway System," being Chapter 16 of the Statutes of the Province of Ontario, passed in the Session held in the seventh year of the reign of His Majesty King George the Fifth, and of "The Ontario Public Works Act," being Chapter 35 of the Revised Statutes of Ontario, 1914, the said Department of Public Highways duly gave notice of expropriation to the Claimant of the lands therein, and described as follows:

"All and singular those certain parcels or tracts of land and premises, situate, lying and being in the Township of Saltfleet, County of Wentworth, and which may be more particularly described as follows: Parcel No. 6 (from the Canadian Building and Land Association, Ltd.), being parts of Registered Plan 569 for the County of Wentworth, containing two hundred and forty-six one-thousandths of an acre (0.246) more or less, described as follows:

Firstly, from Lot C, according to said Plan 569, commencing at the south-east corner of said Lot C; thence north seventy-two degrees and thirty-nine minutes west (N. 72° 39′ W.), fifteen (15) feet and nine (9) inches to the south-west corner of the said lot; thence north eighteen degrees and sixteen minutes east (N. 18° 16′ E.) along the west limit of said lot twenty-two (22) feet and eleven (11) inches; thence on a curve of two hundred and seventy-one and fourteen one-hundredths (271.14) feet Radius fifteen (15) feet, seven and one-quarter (7¼) inches to the east limit of said Lot C; thence south sixteen degrees and fifty-five minutes west (S. 16° 55′ W.) along the last-mentioned limit nineteen (19) feet to the place of beginning.

Secondly, the southerly twelve (12) feet adjoining Maple Avenue of Lots 115 and 142, according to said Plan 569.

Thirdly, the southerly twelve (12) feet adjoining Maple Avenue of Lots 227 and 254, according to said Plan 569.

Fourthly, the northerly twelve (12) feet adjoining Maple Avenue of Lot B.

Fifthly, the northerly twelve (12) feet adjoining Maple Avenue of Lots 114 and 143, according to said Plan 569.

Sixthly, the northerly twelve (12) feet adjoining Maple Avenue of Lots 226 and 255, according to said Plan 569.

Seventhly, the northerly twelve (12) feet adjoining Maple Avenue of Lots 338 and E, according to said Plan 569."

And the Honourable the Minister of Public Works having duly given notice that he desires that the compensation shall be determined by this Board.

Now, the said The Ontario Railway and Municipal Board, having taken upon itself the burden of the Arbitration to fix such compensation as aforesaid, and having heard and duly considered all the allegations and evidence of the said Claimant (The Canadian Building and Land Association, Limited), and of the said Department of Public Highways, and all parties interested in the said lands, appearing before the said Board, concerning the said matters and things so referred to its arbitrament as aforesaid, does hereby make and publish its findings and award as to all the said matters and things as follows:

1. The Board finds and awards the value of the lands expropriated by the said Department to be	$1,440 00
2. The Board finds and allows ten per cent. on the amount of its above-mentioned award for compulsory expropriation of the said lands, amounting to	144 00
3. The Board allows the Claimant, its party and party costs of and incidental to this arbitration, and fixes the same at the sum of	150 00
	$1,734 00

4. And the Board finds and awards that interest at the rate of five per cent. per annum on $1,440 from the 30th day of November, A.D. 1921, should be paid by the said Department of Highways to the Claimant.

In witness whereof the Vice-Chairman and the Commissioner of the said The Ontario Railway and Municipal Board, being the members thereof before whom the said Arbitration was heard, have hereto set their hands and caused to be affixed hereto the seal of the said Board, this 20th day of June, A.D. 1924, at the City of Toronto, in the Province of Ontario.

(Sgd.) A. B. Ingram,
(Seal) *Vice-Chairman.*

I agree,

(Sgd.) J. A. Ellis,
Toronto, June 20th, 1924. *Commissioner.*

Procedure File 9030.

Between Sunnyside Pavilion, Ltd., Appellant, and The Corporation of the City of Toronto, Respondent.

Assessment Appeal ($125,096).

Feb. 29th. Notice of Appeal filed.

Mar. 18th. Hearing, pursuant to appointment, 11 a.m. to 1.40 p.m., at Board's Chambers. Hearing concluded, Judgment reserved.

Mar. 31st. Judgment delivered.
April 12th. Draft Order filed.
April 12th. Order issued.

JUDGMENT.

This is an Appeal by the Sunnyside Pavilion, Limited, from the Judgment of His Honour, Judge Coatsworth, of the County Court of York.

The Assessment appealed against is as follows:

On 1-30/100 acres of land	$27,971
On building	72,000
	$99,971

The Appeal to the learned County Judge was from the following Assessment:

On 1-30/100 acres of land	$45,535
On building	115,000
	$160,535

His Honour, the County Judge, reduced the Assessment on the land and building from $160,535 to $100,000 and, as it would appear, directed the Assessment Department to make the adjustment on the basis of $100,000. The latter divided the acreage and charged $21,500 an acre, making the land assessment $27,971, and the building $72,000.

After considering the evidence adduced on this Appeal, the Board finds that when the original portion of the building in question was built, the old Lake Shore Road (north of the property) was the only highway located on the Lake Front at this point; the front of the building accordingly faced north. Additions were added to the building until it has reached its present proportions, and in the meantime the Harbour Commission has developed Sunnyside away from the location of this property by gradually filling in the spaces south and east with amusement devices. The building is not suitable or adaptable for any purpose other than that for which it is being used, but by reason of the construction of the two new roadways to the south, the old rear entrance to the building (where the lavatories are located) has now become the main entrance, with these and other objectionable features; the old roadway is in a bad state of repair, with greatly reduced traffic over it. The main traffic having been diverted to the south and east, the patronage has very considerably fallen off, which has had the effect of seriously diminishing the value of the property for the purpose for which it was intended.

The Board therefore finds that the value of the building, being the amount by which the value of the land is increased, is $50,000, and should be assessed accordingly.

The Board confirms the assessments on the land, and the Appeal is dismissed as to this.

The Respondent will prepare the usual Order in accordance with the Board's practice.

The Board will make no Order as to costs, except that the Respondent pay $10.00 for Law Stamps, the Board's tariff fee herein.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, March 31st, 1924.

PROCEDURE FILE 9032.

Between The Canadian National Railways, Appellant; and The Corporation of the City of Ottawa, Respondent.

(Assessment Appeal *re* "Chateau Laurier," $1,239,375.)

Mar. 3rd. Notice of Appeal filed.

Mar. 21st. Hearing, pursuant to appointment, Council Chamber, City Hall, Ottawa, 10 a.m. to 3.15 p.m. Adjourned *sine die* for argument.

April 14th. Hearing, 11 a.m. to 12 m., at Board's Chambers. Argument concluded, Judgment reserved.

May 8th. Judgment delivered.

May 19th. Approved draft Order filed.

May 19th. Order issued.

May 20th. Notice of Application for leave to appeal filed by Canadian National Railways.

Oct. 25th. Appeal allowed by Appellate Division (See *Globe* of this date); 27 O.W.N., 129; 56 O.L.R., 153.

JUDGMENT.

This is an appeal by the Grand Trunk Railway, now the Canadian National Railways by amalgamation, to The Ontario Railway and Municipal Board against the decision of His Honour Judge Constantineau, acting as County Judge of the County of Carleton, confirming the decision of the Court of Revision of the City of Ottawa, on the Chateau Laurier Hotel, made in the year 1923, as the basis of taxation for the year 1924 upon the following among other grounds:

"(1) That the Appellant is entitled to a fixed assessment of $500,000 for the year 1923, under an agreement dated 16th November, 1907, section 3, to which the Appellant craves leave to refer.

"(2) That in any case, and apart from the provisions of the said agreement, the amount $1,235,875, at which the said Chateau Laurier Hotel is assessed under the said assessment, is incorrect and excessive as a valuation for assessment purposes under the provisions of "The Assessment Act," and amendments thereto, and that under the said Act and amendments thereto the said hotel ought to be assessed at a very much lower amount, and that the said assessment ought to be reduced accordingly."

The assessment in question was made in the year 1923 with a view to its adoption as the basis of taxation for the year 1924, and is entered against the Respondent on the Assessment Rolls of the city as prepared by the Assessment Department as follows:

St. George Ward, Roll No. 205, land	$265,000 00
St. George Ward, Roll No. 205, building	1,250,000 00
Total	$1,515,000 00

Upon appeal to the Court of Revision these amounts were reduced as follows:

On value of the land to	$238,175 00
On value of the building to	997,700 00
Total	$1,235,875 00

Upon a further appeal to the learned County Judge, His Honour confirmed the decision of the Court of Revision.

In regard to the first ground of this Appeal no evidence was offered. Counsel for the Appellant did, however, refer to his Argument before the learned County Judge, in which he contended that although the assessment is made in one year, and the taxes collected in the next year, 1923 is still the fifteenth year of the assessment, although the taxes are to be collected in 1924. His Honour having ruled against the Appellant on this point, Counsel "did not want to elaborate it any further, he simply wanted to keep the objection before the Board in case there is any great difference between the fixed assessment and the amount the Board may value the property at."

The agreement under which the City gave a fixed assessment of $500,000, provided that such fixed assessment was to be for a period of fifteen years from and including the year 1909, and that the property was only to be liable to be rated for all purposes of taxation by the City in each of the said years, respectively, on such fixed assessments.

In the view of the Board the fifteen years during which time the property was to be assessed and rated at $500,000, expired in the year 1923.

If the fixed assessment was given in 1923, the payment of taxes in 1924 would be upon this fixed assessment, and the Board agrees with the learned County Judge that this would be an extension to sixteen years of the fifteen-year period provided for in the agreement.

In regard to the second ground of the Appeal of the Appellant herein, their evidence disclosed a variety of reasons why in their opinion the Chateau Laurier Hotel was not the most suitable or most appropriate type of hotel for such a business in the City of Ottawa; that it is too large and too costly; lacking in revenue producing stores or rooms on the ground floor except the cigar stand and dining room; having no sample rooms, and taking into account the average number of guests per day of the year 1923 as 199, and the average number of rooms occupied daily for the same period as 176, in a hotel composed of 312 rooms, was not good business. Such patronage they contend could have been accommodated in a more modern up-to-date hotel containing from 150 to 200 rooms, and with greater profit. They admit, however, that a hotel of this latter type could not be built for $500.000.

The business is said to be fairly good during the Session, and for four days of the week for the balance of the year; that the patronage by the local people of the City of Ottawa is very light, their preference for entertainment appearing to be in favour of the Golf Club, Hunt Club and the Inn located over the river.

The operating revenue from June to December, 1912, and for each full year since up to the end of 1923, amounted to $6,989,458.70, and the operating expenses for the same period amounted to $6,802,560.03, leaving a balance of operating profit of $186,878.67 for the period of eleven years and six months. It was contended that these figures comprising the earnings were not sufficient to provide for a fair interest on the investment, nor for a reasonable depreciation fund. The original cost of the building in question, according to the evidence of Mr. Poucher (page 46), was $1,269,622, and the price of the land as nominally inserted in the deed was $100,000 (page 4, notes of evidence).

Values.

Two of the witnesses called by Counsel for the Appellant place the value on the land and building in question at $500,000; on the land, $100,000, and on the building, $400,000.

Mr. Mulligan, another one of their witnesses, declares that "you cannot

build a fire-proof hotel to-day, including land, with 150 rooms, for a half-million dollars." (Page 15.)

Mr. Ewart, a practising architect, called by Counsel for the Respondent, describes the Chateau Laurier building as a "steel frame building, fire-proof, very well built. stone facade, well finished." He estimates its reproduction cost at date of hearing herein, exclusive of the land, at $2,400,000 and allowing for two per cent. per year depreciation for fourteen years brings it down to $1,728.000.

The building in question is erected upon a site which is a desirable and appropriate one for a first-class hotel. A public park adjoins the property, and is maintained by the Dominion Government. Its convenience to outgoing and incoming railway traffic, and to the several departments of the Government, gives it a potential value of considerable importance. Being a railway hotel, there are some advantages which the Appellant derives from it over and above any revenue therefrom. The revenue produced is not the sole criterion of the value of this building.

It is not reasonable to suppose that the railway company did not think it was getting a concession when it obtained the fixed assessment for fifteen years of $500,000, and yet two of the witnesses for the Appellant place this valuation upon it now.

In regard to the value of the land, both of the undersigned members of the Board are familiar with the streets and location of the lands and buildings adjacent to the Chateau Laurier Hotel, regarding which values were given by the witnesses herein, as well as many of those cited that are located outside of Ottawa.

The Board is of the opinion, after careful consideration of all the elements contributed by the parties hereto, including the values of adjacent lands, that the value of the land, namely 26,464 square feet, should be reduced from $9.00 to $8.00 per square foot, thus placing the value of the land at $211,712.

Taking into account the original cost of the building, its reproduction cost, the revenue derived therefrom, and its potential and other values before mentioned, the Board finds that the value of the building is $997,700, being the amount fixed by the Court of Revision, and that the value of the land is increased by such amount.

The Board finds that the actual cash value of the land and building, as the same would be appraised upon a sale to another company possessing similar powers, rights and franchises, is $1,209,412.

And the Board makes no Order for costs, save and except that the Appellant and Respondent shall each pay $15.00 for the Law Stamps required for this Order.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, May 8th, 1924.

Procedure File 9046.

In the matter of the Petition of Ernest Beauchesne and others, under section 504 (a) of "The Consolidated Municipal Act, 1922," for the erection of a certain portion of the Township of Caldwell (District of Nipissing) into a Police Village, to be called "Verner."

Mar. 6th. Petition and other material filed.
April 9th. Further material filed.
April 9th. Petition granted. Petitioner's Solicitor to draft Order.
May 5th. Draft Order filed.
May 6th. Order issued. (For form of Order, see files of Board.)

PROCEDURE FILE 9051.

In the matter of the petition of College Heights Estates, Limited, and others, under section 9 of "The Local Improvement Act," against the apportionment of cost of extension of Lascelles Boulevard, in the City of Toronto.

Mar. 7th. Petition filed.

Mar. 21st. Hearing, pursuant to appointment, 11 a.m. to 12.50 p.m., at Board's Chambers. Hearing concluded. Petition dismissed. (See Reporter's Notes).

April 3rd. Draft Order filed.

April 7th. Order issued. (For form of Order, see files of Board.)

PROCEDURE FILE 9059.

Application by the Township of Etobicoke, under Chapter 62, Ontario Statutes, 1923, for approval of its proposed By-law No. 1529 ($132,000 for Waterworks construction in Area No. 7).

Mar. 8th. Application and material filed.

April 10th. Hearing, pursuant to appointment, 11 a.m. to 12.50 p.m., at Board's Chambers. Hearing concluded. Application dismissed. (See Reporter's Notes.) Application may be made *re* area composing urban district.

PROCEDURE FILE 9093.

Application by the Village of Sutton, under section 17 of "The Consolidated Municipal Act, 1922," for annexation thereto of part of the Township of North Gwillimbury.

Mar. 13th. Application, Petition, copy of By-law 306 and other material filed.

Mar. 29th. Subpoena issued to Chas. Willoughby (opposing Application).

April 2nd. Hearing, pursuant to appointment, 1.30 to 3.30 p.m., at Council Chamber, Sutton. Judgment reserved.

April 10th. Report of Vice-Chairman, under section 9, Chapter 186, R.S.O., filed and adopted. Application granted.

May 15th. Draft Order filed.

May 15th. Order issued. (For form of Order, see files of Board.)

REPORT.

The undersigned having been directed to enquire and report upon this application, attended at Sutton on Wednesday, the 2nd day of April, A.D. 1924, at the hour of half-past one o'clock in the afternoon, at the Council Chamber, in the Village of Sutton, for the hearing herein.

The Counsel representing the Petitioners was Mr. A. Crozier, and representing the Township of North Gwillimbury was Mr. R. H. Greer, K.C.

From the evidence adduced it would appear that from the proximity of the streets or buildings in the district or the probable future exigencies of the Village, it is desirable and expedient that the application should be granted.

The Petitioners were unanimously in favour of this application, there being no opposition to it except the opposition offered by the representatives of the Township outside of the area sought to be annexed.

I am therefore of the opinion that the application should be granted.

Respectfully submitted,

(Sgd.) A. B. INGRAM,
Vice-Chairman.

Toronto, April 10th, 1924.

I approve of this Report being adopted as the basis of the Board's Order.

(Sgd.) D. M. McINTYRE,
Chairman.

PROCEDURE FILE 9108.

Application by The Wroxeter Rural Telephone Co., Limited, under sections 78 and 79 of "The Ontario Telephone Act, 1918," for an Order consenting to the paralleling by the Applicant of the pole leads of the Howick Municipal Telephone System.

Mar. 18th. Application and material filed.

April 11th. Hearing, pursuant to appointment, 1.15 to 3.20 p.m., Town Hall, Gorrie.

May 5th. Report of Vice-Chairman (under section 9, Chap. 186, R.S.O.) filed and adopted.

May 5th. Opinion delivered, dismissing application.

May 8th. Order. (For form of Order, see files of Board.)

REPORT.

The undersigned, having attended at Gorrie on the 11th day of April, A.D. 1924, and having heard the evidence of all parties interested in the above matter, encloses herewith a Report of the Notes of the Proceedings relative to this application for the consideration of the Board.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

OPINION OF THE BOARD.

This application was heard at Gorrie, on April 11th, 1924, before A. B. Ingram, Esquire, Vice-Chairman, the Board's Supervisor of Telephone Systems being also present. The Applicant was represented by W. F. McKercher, a Director of The Wroxeter Rural Telephone Company, and the Respondent by J. H. Rogers, Secretary-Treasurer of The Howick Municipal Telephone System. From the evidence submitted, which has been reported to the Board by the Vice-Chairman, and other material on file, it would appear that this application is due to certain changes which have taken place within the past two years affecting the ownership and operation of the telephone service in the Township of Howick. These changes may be summarized as follows:

1. Prior to 1922 the local service in the Villages of Fordwich and Gorrie was furnished by The Bell Telephone Company of Canada, and the rural service contributory to these points by two companies, The Fordwich Rural Telephone Company and The Springbank Telephone Company, the circuits

of these companies terminating upon the switchboard of The Bell Telephone Company at Fordwich, under an agreement which provided for a free interchange of service between the rural subscribers of the Fordwich and Springbank Companies and the local subscribers at Fordwich and Gorrie.

2. Prior to 1922 subscribers to The Wroxeter Rural Telephone Company, which furnished local and rural service from its exchange located in the Village of Wroxeter, were required to pay a charge of ten cents per conversation for interchange of service with the subscribers of The Bell Telephone Company at Gorrie and Fordwich and those of The Fordwich Rural Telephone Company and The Springbank Telephone Company.

3. In 1922 The Wroxeter Rural Telephone Company acquired the local system of The Bell Telephone Company at Gorrie and instituted a free service between that point and Wroxeter, at the same time withdrawing free interchange between the local subscribers at Gorrie and the local subscribers of The Bell Telephone Company at Fordwich, as also with the rural subscribers of the "Fordwich" and "Springbank" companies.

4. As a result of an application to this Board an agreement was reached between The Wroxerer Rural Telephone Company and the "Fordwich" and "Springbank" companies, providing for a free interchange of service between Wroxeter, Gorrie and Fordwich.

5. In 1923 the Municipality of Howick, upon the petition of a majority of the subscribers of the "Fordwich" and "Springbank" companies, established a telephone system under the provisions of Part II of "The Ontario Telephone Act," by the acquisition of the local system of The Bell Telephone Company at Fordwich and the rural systems of the "Fordwich" and "Springbank" companies, at a cost of approximately $12,500.

6. The Municipality of Howick has made an offer to purchase the local system at Gorrie at a price fixed by this Board, which offer has been refused by The Wroxeter Rural Telephone Company.

The Board has received a number of petitions, signed by residents of the Village of Gorrie and the Township of Howick, in support of the Applicant's effort to retain the local system at Gorrie and to extend its operations in the township. As it is admitted in evidence by Mr. McKercher that "the company prepared these petitions and circulated them" (see page 5 of Notes of Proceedings), it is apparent that the Applicant has lent its support to an agitation which, if successful, would seriously hamper the municipality in the establishment and operation of its telephone system.

The fact that the subscribers to and users of the municipal system, including the petitioners, are receiving the same service to-day which they have enjoyed during the past twelve years or more, with the added facility of free service with Wroxeter, impels the Board to look for some other reason by which to justify this opposition to the municipal system. This reason may be found by a comparison of the charges of the municipal system and those of The Wroxeter Rural Telephone Company, that of the former being $16 per annum and of the latter $10 per annum. This conclusion is supported by the following extract from the evidence of Mr. Toner, representing the petitioners:

By the Vice-Chairman:

"Q. Does the question of price come in at all? A. I think the price should be a consideration; I do not think we should for a moment deny that. You know the times are a great deal harder than they were some time ago and I do not see why, if we could get service for $10, or $11, or $12, that we should have to pay perhaps $16, $17, $18 or more."

By Mr. Dagger:

"Q. Your service is exactly the same to-day as it was ten years ago, as far as the telephone in your own house is concerned? A. It has been up to the time of doing away with the Fordwich Rural Company.

"Q. What change have they made? A. We do not hardly know where we are.

"Q. Have they as a fact made any change? A. No, it is just the same service."

In view of the foregoing it is necessary to consider the conditions under which the Applicant has been operating since the inception of its system, in order to reach a conclusion as to whether or not it would be desirable in the public interest to permit the further extension of such system and thereby to jeopardize the investment of the municipality.

It would appear that since the incorporation of The Wroxeter Telephone Company, in 1911, each shareholder has been allotted capital stock to the value of $100, payable in ten annual instalments of $10. Apart from these instalments the company has received nothing from its shareholders in payment for telephone service. The effect of this unique method of financing has been that a very large proportion of the moneys representing the company's capital stock has been illegally diverted to pay the expense of operating and maintaining the system.

An analysis of the financial statements of this company for the past three years shows its position to be as follows:

1. Liabilities exceed assets by approximately $15,000.
2. The average expenditure per telephone upon operation and maintenance during this period has been $9.80 per annum.
3. There exists no reserve for depreciation, notwithstanding the fact that the original plant is fourteen years old.

Apart from the question as to how the Applicant proposes to finance any extensions to its system and to provide capital to install telephones for additional subscribers in the territory now served, it is obvious that the existing plant cannot continue to be maintained much longer in a condition to render efficient service at an annual charge of $10. It is admitted in evidence by Mr. McKercher, that whenever it becomes necessary to rebuild the lines the subscribers "would just have to be assessed" (see page 4, Notes of Proceedings). That the time for the reconstruction of a considerable portion of the plant is approaching cannot be ignored. Therefore, in view of the admission quoted, it would not appear that the Applicant is acting with good judgment in seeking to furnish service in new territory and attracting prospective subscribers by creating the impression that such service can be furnished indefinitely at $10 a year.

Had The Wroxeter Rural Telephone Company been operated upon a sound commercial basis during the past three years, including provision for depreciation and a reasonable interest upon the investment, it would have been necessary to charge a rate of $15 per annum. This fact is apparent from the following figures:

1921.		
Maintenance and operation	$3,760 22	
5% depreciation on plant ($14,600)	730 00	
7% on investment ($14,600)	1,022 00	
$15.40 per telephone		$5,512 22

1922.		
Maintenance and operation	$3,535 19	
5% depreciation on plant ($15,991.22)	799 56	
7% on investment ($15,991.22)	1,119 38	
$14.63 per telephone		$5,454 13
1923.		
Maintenance and operation	$3,751 10	
5% depreciation on plant ($16,468.94)	823 45	
7% on investment ($16,468.94)	1,152 82	
$15.00 per telephone		$5,727 37

It would be contrary to the practice of the Board, were it vested with authority, which is doubtful, to interfere with the business policy of any telephone system under private ownership. In so far as such policy is in conformity with the law, the directors of a company must accept full responsibility for an error of judgment in connection with the fixing of charges for service, or in any other matter. The Board's jurisdiction in so far as it applies to the approval of telephone charges is limited to the protection of subscribers from payment of rates in excess of what are necessary to furnish a reasonable profit upon the capital invested. If, therefore, the directors of a company adopt a schedule of charges which, because of their inadequacy, may result in financial embarrassment, they are free to do so providing such a policy has the concurrence of the shareholders and no other interest suffers.

The Board is, however, vested with the duty of safeguarding the investment of those municipalities which have established telephone systems under the provisions of "The Ontario Telephone Act," and therefore it cannot view with equanimity any encroachment upon territory served by any such system, under conditions which can only result in the financial embarrassment of the competing company and in the placing of a heavy burden of debt upon those ratepayers who have assumed responsibility for the repayment of such debt.

The Board is willing to concede the claim of any individual who may require to connect with another telephone system in cases where the system serving the territory in which such individual is located will not or cannot furnish the facilities desired. One of the conditions involved in any such claim, however, should be that the applicant act upon his own initiative and without any solicitation upon the part of the company whose service is applied for. M reover, it is contrary to the policy of the Board to encourage anything in the nature of competition or duplication where systems operating in adjacent territory are charging different rates. For this reason the Board will only permit duplication in cases where the applicant can justify his need for the service applied for and where in order to obtain that service such duplication is necessary.

After careful consideration of the evidence submitted at the hearing, as reported by the Vice-Chairman, and other material on file, the Board is of opinion:

1. That until the Applicant, The Wroxeter Rural Telephone Company, is in a position to satisfy the Board that its business is being carried on upon a sound commercial and financial basis and in full compliance with the law, consent, in so far as such consent may be required, should not be granted to any further extensions of its system.

2. That the persons who would be served by The Wroxeter Telephone Company, in the event of this application being granted, are enjoying at present identically the same service which the Applicant is in a position to furnish or can do so by becoming subscribers to The Howick Municipal Telephone System.

3. That it is not in the public interest to permit the duplication applied for.

4. That if any improvement in the service furnished by the Applicant and The Howick Municipal Telephone System is desired, such improvement can best be secured by the municipality acquiring the local system at Gorrie and the continuance of free interchange of service between Fordwich, Gorrie and Wroxeter.

5. That for the reasons as aforesaid this application should be dismissed and that the Applicant be required to pay $10.00 to cover the cost of Law Stamps required for the Order in this matter.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, May 5th, 1924.

Procedure File 9112.

In the matter of the petition of The Essex Real Estate Co., Ltd., and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the City of Windsor of part of the Township of Sandwich East.

Mar. 20th. Petition and other material filed.

April 30th. Hearing, pursuant to appointment, 10 to 10.30 a.m., Council Chamber, City Hall, Windsor. Adjourned to May 20th, at 10 a.m.

May 20th. Hearing continued, pursuant to adjournment, 10 to 10.30 a.m. Application granted, to take effect June 1st, 1924. Order to be drafted by Applicants' Solicitor and submitted for approval to city and township.

June 5th. Approved draft Order filed.

June 6th. Order issued. (For form of Order, see files of Board.)

Procedure File 9140.

In the matter of the petition of Ernest Lewis and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the City of Windsor of part of the Township of Sandwich West.

April 9th. Application, Petition and other material filed.

May 20th. Hearing, pursuant to appointment, 10 a.m.: 10.30 a.m. to 2 p.m. Application granted, excepting Jockey Club property. Annexation to take effect July 1st, 1924. Jockey Club property to be annexed 1st day of January, 1927, unless subdivided in the meantime, when city may make application for annexation of same.

Sept. 15th. Approved draft Order filed.

Sept. 15th. Order issued. (For form of Order, see files of Board.)

Procedure File 9146.

Application by Angelique Parent and others, under "The Planning and Development Act," for approval of plan of the front part of Farm Lot 145, in the Town of Riverside, County of Essex.

April 11th. Application and material filed.

April 30th. Hearing, pursuant to appointment, 10 a.m. to 10.15 a.m., Council Chamber, City Hall, Windsor. Plan approved.

May 2nd. Plan certified.

PROCEDURE FILE 9151. (P. 463.)

In the matter of the application of the Village of Crystal Beach, under section 17 of "The Consolidated Municipal Act, 1922," for annexation thereto of part of the Township of Bertie.

April 14th. Application and material filed.

May 29th. Hearing, pursuant to appointment, 1.00 to 5.30 p.m., Council Chamber, Crystal Beach.

June 4th. Report of Mr. Commissioner Ellis (under section 9, Chap. 186, R.S.O.) filed and adopted. Petition of majority of property owners in favour of annexation to be presented to the Board by the 1st August, 1924.

REPORT OF COMMISSIONER ELLIS.

I heard this application at the Village of Crystal Beach, on the 28th day of May, 1924, and took the evidence presented by the various parties.

After hearing the evidence, and the statements made by the various parties, I beg to report as follows:

Ordinarily in the case of an annexation, it usually proceeds from the persons in the district to be annexed by petition to an adjoining municipality, but there is no provision of that kind in the case of an annexation to a village. The initiative there is by the Village Council asking for the annexation of the district, but I think there is some analogy even if it is not contained in the Act—that is to say—that a village council should not ask for an annexation unless it has some reasonable assurance that the majority of the people in the territory proposed to be annexed desire it.

The section of the Municipal Act under which this application is made reads as follows:

> "The Municipal Board may, upon the application of the Council of a Village, annex a district to it where from the proximity of the streets or buildings in the district or the probable future exigencies of the Village, the Board deems it expedient."

Not very much evidence was given with regard to the proximity of the streets or buildings in the district. There do not appear to be many streets or buildings yet. There is probably more to be said as to the probable future exigencies of the Village. I think it is probable that in future, and it might not be a very long time, the Village of Crystal Beach will find it very essential to extend into this territory. There was very substantial opposition to the annexation. Outside the Village Council no person appeared to support the application. On the other hand, many people appeared who were strongly opposed to it.

I recommend that if it can be shown to the Board that a majority of the property owners in the district proposed to be annexed, including those who are aliens, are in favour of the annexation, the Order be made.

This should be shown by a petition being presented to the Board signed by a majority of such property owners. The signatures should be properly witnessed and declarations made proving such signatures. Opposite the names of the persons who signed should be indicated the properties they own. A declaration should also be filed from the Township Clerk proving how many property owners there are on the last revised Assessment Roll in the district proposed to be annexed, and how many of them signed the petition. When completed, the petition and these declarations should be submitted to Mr. T. D. Cowper, who appeared at the hearing as Solicitor for the Township of Bertie, and some prop-

erty owners who were opposing the annexation, in order that he may make any representations thereon to the Board which he desires. If such petition, signed by a majority of the property owners, as above mentioned, is not filed with the Board by August 1st, 1924, I recommend that the application for annexation be dismissed.

Some question was raised with regard to the school section in which the district it was proposed to annex would be if the order was made. I do not see any difficulty about this, and no doubt if the parties desire they can agree upon a clause to be put in the Order if it is made.

Another question raised was as to expenditures which the Township of Bertie had made in the district proposed to be annexed. This can be adjusted under section 38 of The Municipal Act, or it can be adjusted if necessary by the order of the Board if the annexation goes. The parties can probably agree as to this.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, June 4th, 1924.

I agree,

(Sgd.) A. B. Ingram,
Vice-Chairman.

Procedure File 9158.

Application by The Westport Rural Telephone Co., Limited, under section 88 of "The Ontario Telephone Act, 1918," for authority to increase charges for telephone service.

April 16th. Application filed.

May 27th. Hearing, pursuant to appointment, 10 a.m. to 12 m., Town Hall, Westport. Application granted.

June 14th. Report of Vice-Chairman (under sec. 9, Chap. 186, R.S.O.) filed and adopted.

June 14th. Order. (For form of Order, see files of Board.)

Report.

The undersigned, having heard the evidence of all parties relative to this application, recommends that the annexed Order be adopted as the Order of the Board.

(Sgd.) A. B. Ingram.
Vice-Chairman.

Toronto, June 14th, 1924.

I concur,

(Sgd.) J. A. Ellis,
Commissioner.

Procedure File 9176.

Application by The Essex Real Estate Co., Limited, under "The Planning and Development Act," for approval of plan of parts Farm Lots 91 and 92; Lots A, B and part C, Registered Plan 423; and Lots 413 to 433, Registered Plan 1054, Concession II, Township of Sandwich East, County of Essex.

April 24th. Application filed.

April 30th. Hearing, 10 to 10.15 a.m., Council Chamber, City Hall, Windsor. Plan approved.

May 2nd. Plan certified.

PROCEDURE FILE 9177.

Application by the Town of Mimico, under section 13 (2) of "The Public Parks Act," for approval of its By-law No. 500, authorizing the setting apart of the park of the said town for athletic purposes.

April 25th. Application and material filed.

May 8th. Hearing, pursuant to appointment, 11 to 11.20 a.m. Application granted. Applicant's Solicitor to draft Order. (See Reporter's Notes.)

May 10th. Draft Order filed.

May 12th. Order issued. (For form of Order, see files of Board.)

PROCEDURE FILE 9189.

In the matter of the petition of Anne Quinn and others, under section 9 of "The Local Improvement Act," against the construction in the City of Guelph of proposed pavement on Paisley Road, between Edinboro' Road and Bagot Street.

April 30th. Petition filed.

June 5th. Hearing, pursuant to appointment, 11 a.m. to 12 m., at the Council Chamber, City Hall, Guelph. Petition dismissed, the City of Guelph undertaking not to proceed with the work for one year.

PROCEDURE FILE 9190.

In the matter of the petition of George Hurley and others, under section 9 of "The Local Improvement Act," against the construction in the City of Guelph of a sidewalk on both sides of Mercer Street.

April 30th. Petition filed.

June 5th. Hearing, pursuant to appointment, 11 a.m. to 12 m., Council Chamber, City Hall, Guelph. Petition granted.

PROCEDURE FILE 9191.

Application by The Bell Telephone Co. of Canada, Ltd., under section 82 of "The Ontario Telephone Act, 1918," for approval of exchange and toll line agreement with The Orono Telephone Co., Ltd.

May 1st. Agreement filed.

May 14th. Hearing, pursuant to appointment, 11 a.m. to 5.45 p.m., at Board's Chambers. Agreement approved.

May 31st. (For form of Order, see files of Board.)

PROCEDURE FILE 9198.

Application by the City of Windsor, under section 44 of "The Consolidated Municipal Act, 1922," for approval of change of existing boundary line between Wards 3 and 4 (from alley east of Louis Avenue to centre of Marantette Avenue, from the River Detroit to the southerly limits of the city).

May 5th. Application and plan filed.

May 20th. Hearing, pursuant to appointment, 10 to 10.15 a.m., Council Chamber, City Hall, Windsor. Plan approved.

PROCEDURE FILE 9202.

In the matter of the petition of The James Watt Estate and others, under section 9 of "The Local Improvement Act," against the construction in the City of Guelph of a pavement on Argyle Street.

May 7th. Petition filed.

June 5th. Hearing, pursuant to appointment, 11 a.m. to 12 m., Council Chamber, City Hall, Guelph. Petition dismissed.

PROCEDURE FILE 9241.

Application by J. P. Mills and McKittrick Properties, Ltd., owners, under subsection (3) of section 1 of Chapter 63, Ontario Statutes, 1918, for an Order altering the method of assessment of the lands therein described (on which plans subdividing such lands have been filed, namely, Woodlawn, Paisley Gardens, Clinelands, Crescent Wood addition and Elmhurst) to the Local Improvement Plan.

May 23rd. Application and material filed.

June 17th. Hearing, pursuant to appointment, 10.30 a.m. to 12.30 p.m., Council Chamber, City Hall, Hamilton. Applicant to submit plan of property showing section liable to bridge assessment and proved by affidavit as to registration of plan. Local Improvement plan approved. Draft Order to be submitted to Mr. Waddell and if satisfactory to Board, Order to be issued.

PROCEDURE FILE 9250.

Application by the City of Hamilton, under section 13 (6) of "The Public Parks Act," for approval of By-law No. 10 of the Board of Park Management of the City of Hamilton, to set apart the portion of Park lands known as "The Chedoke Golf Club Lands" for athletic purposes.

May 29th. Application and material filed.

June 17th. Hearing, pursuant to appointment, 10.30 to 11 a.m., Council Chamber, City Hall, Hamilton. Application granted.

July 11th. Draft Order filed.

July 15th. Order issued. (For form of Order, see files of Board.)

PROCEDURE FILE 9266.

Application by the Township of Crowland, under section 5 of Chapter 56, Ontario Statutes, 1918 (8 Geo. V), for approval of its By-law No. 76, A.D. 1923, to authorize the construction, maintenance and operation of a waterworks system in a defined area or section of said township.

June 7th. Application and material filed.

June 24th. Hearing, pursuant to appointment, 11.30 a.m. to 12 m., Township Hall, Township of Crowland.

June 25th. Report of Mr. Commissioner Ellis (under section 9, Chap. 186, R.S.O.) filed and adopted.

June 25. Order. (For form of Order, see files of Board.)

REPORT OF MR. COMMISSIONER ELLIS.

I heard this application at the Township Hall, in the Township of Crowland, on June 24th, 1924. No one appeared in opposition to the application.

The By-law conforms to the special legislation and to section 51 (2) of "The Local Improvement Act."

I recommend that the By-law be approved, the Order to be dated June 25th, 1924.

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, June 25th, 1924. Adopted,

(Sgd.) A. B. INGRAM,
Vice-Chairman.

Procedure File 9268. (P. 468.)

Application by the City of Guelph, under section 94 of "The Public Health Act," as enacted by section 10, Chapter 41, Ontario Statutes, 1918, for an Order prescribing the manner in which the City shall carry on the work of constructing a trunk sewer in the Township of Guelph.

June 9th. Application and material filed.

June 25th. Hearing, pursuant to appointment, 10.30 to 11 a.m., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order and submit same for approval to the Township of Guelph, and Mr. Dallyn, of the Public Health Department.

July 3rd. Approved draft Order filed.

July 9th. Order issued. (For form of Order, see files of Board.)

Procedure File 9271.

Application by The Warwick Telephone Co., Ltd., under section 78 of "The Ontario Telephone Act, 1918," for consent to the paralleling of the pole leads of The Parkhill-Arkona Telephones, Limited.

June 9th. Application, etc., filed.

July 3rd. Hearing, pursuant to appointment, 11.15 a.m. to 2.30 p.m. (Vice-Chairman authorized, under section 9, Chap. 186, R.S.O.) Judgment reserved pending negotiations between parties for settlement.

Procedure File 9277. (P. 469.)

Application by the Provisional Trustees of the Protestant Cemetery, in the Village of Marmora, under "The Cemetery Act," as amended by Chap. 96, Ontario Statutes, 1920, for an Order vesting certain lands in the Village of Marmora in the said Trustees.

June 10th. Application and material filed.

June 26th. Hearing, pursuant to appointment, 2 to 2.30 p.m., at Board's Chambers. Application granted. Order to issue on filing of proof of service publication and posting of notice and general plan of Marmora, with proof that road in question has never been opened. Applicant's Solicitor to draft Order. (See Reporter's Notes.)

June 27th. Further material filed as directed.

June 27th. Order issued. (For form of Order, see files of Board.)

Procedure File 9281.

Application by Wm. L. Helmer, owner, under "The Planning and Development Act," for approval of plan of the southern part of Lot 12, in front of Concession "A," Township of Charlotteville, County Norfolk.

June 11th. Application filed.

June 26th. Hearing, pursuant to appointment, 10.30 to 11 a.m., at Board's Chambers. Plan approved and certified.

Procedure File 9312. (P. 472.)

Application by the Town of Mimico, under section 120 of "The Ontario Railway Act," for approval of plan of crossings over The Hydro-Electric Railway (Toronto & York Radial Railway—Mimico Division) at Queen's Avenue, Hillside Avenue and Allan Avenue.

June 20th. Application and blue print plan (Drawing No. Y-22), in triplicate, filed.

June 25th. Engineer's Report filed.

July 8th. Hearing, pursuant to appointment, 10 to 11.15 a.m., at Board's Chambers. Adjourned *sine die*, pending agreement between parties.

June 24th, 1924.

The Chairman,

The Ontario Railway and Municipal Board, Toronto.

Sir,—

Re Crossings over Hydro-Electric Railway on Toronto-Hamilton Highway.

I have examined Plan No. Y-22, prepared by the Town of Mimico, showing level crossings over the Hydro-Electric Railway at Queen's Avenue, Hillside Avenue and Allan Avenue, on the Toronto-Hamilton Highway.

There are objections to this plan for the reason that the crossings at Queens Avenue and Hillside Avenue are both over the switches of one of the Hydro-Electric Railway turnouts, which would make it extremely inconvenient from an operating point of view, and is not good engineering practice. If these crossings are put in the turn-out will have to be reconstructed either by lengthening it or by moving it off the crossing.

I do not see the necessity of two crossings so near together as Queen's Avenue and Hillside Avenue. There is only a distance of about 350 feet between them and they intersect at about 200 feet from the railway. In my opinion, one at the main street, which will probably be Queen's Avenue, would be sufficient. With regard to the crossing at Allan Avenue, there is no objection from an engineering point of view as there is no turn-out at this place.

Yours truly,

(Sgd.) H. W. Middlemist.

Procedure File 9318.

Application by Wilton R. Bricker, owner, under "The Planning and Development Act," for approval of plan of part Lot 1, German Co. Tract, City of Kitchener, County of Waterloo.

June 25th. Application and material filed.

July 9th. Hearing, pursuant to appointment, 10.30 to 11.30 a.m. Plan to be amended to conform to proposed 50-foot extension of Crescent Street, from Borden to Onward Avenue, and then submitted to Town Planning Commission. Board to approve on Commission approving plan as amended.

Aug. 26th. Amended plan, approved by Kitchener Planning Commission, filed.

Aug. 27th. Amended plan approved and certified.

Procedure File 9330.

Application by the Village of Delhi, under section 17 of "The Consolidated Municipal Act, 1922," for annexation thereto of part of the Township of Middleton, County of Norfolk (and which lands are more particularly described in By-law No. 224 of said village).

June 30th. Application and material filed.

Aug. 15th. Hearing, pursuant to appointment, 1 to 3 p.m., Council Chamber, Delhi. Judgment reserved.

Aug. 18th. Report of Vice-Chairman (under sec. 9, Chap. 186, R.S.O.) filed.

Sept. 2nd. Report of Vice-Chairman adopted.

REPORT.

The undersigned, having been directed to enquire and report upon this application, attended at Delhi on Friday, the 15th day of August, A.D. 1924, at the hour of one o'clock in the afternoon, at the Council Chamber, in the Village of Delhi, for the hearing herein.

The Applicants were represented by Mr. Dent Dalton, the Reeve; the Township of Middleton was represented by Mr. H. P. Innis, K.C., and the County of Norfolk by Mr. J. Porter.

From the evidence adduced it would appear that from the proximity of the streets or buildings in the district, or the probable future exigencies of the village, it is desirable and expedient that the application should be granted, subject to the plan and description being amended in the following manner, that is, to have the western boundary follow the shore of the Mill Pond from the bridge located along Talbot Street to the bridge located across Big Creek. The boundary line then will leave the Mill Pond within the township instead of being divided, as at present.

The representative of the County alleged that if the Board granted the application it would load the County up with another bridge, which would be a great hardship to the County, as it had already forty-two bridges to maintain, and that Lot No. 188 should not be included in the application.

Counsel for the Township of Middleton opposed the application chiefly on the ground of the loss of the taxes, if the application were granted, and in case the Board approved the annexation he contended that the boundary line should extend further north on James Street in order to take in a narrow strip of land lying between the Highway and Big Creek, and that the western boundary line should follow the shore line instead of running in a straight line across the Mill Pond. Both parties agreed to the latter change.

I am therefore of the opinion that the application should be granted.

Respectfully submitted,

(Sgd.) A. B. INGRAM,
Vice-Chairman.

Toronto, August 18th, 1924.

I approve of this Report as being the basis of the Board's Order.

(Sgd.) J. A. ELLIS,
Commissioner.

PROCEDURE FILE 9387.

In the matter of the petition of Chas. W. Myers, under section 9 of "The Local Improvement Act," against the proposed construction of asphalt pavement in the City of Hamilton on Queen Street, between Main and York Streets.

July 2nd. Petition filed.

July 16th. Hearing, pursuant to appointment, 10.30 to 11.30 a.m., Council Chamber, City Hall, Hamilton. Judgment reserved.

July 22nd. Report of Mr. Commissioner Ellis (under section 9, Chap. 186, R.S.O.) filed and adopted. Petition dismissed.

Aug. 14th. Order issued. (For form of Order, see files of Board.)

REPORT OF MR. COMMISSIONER ELLIS.

I heard this petition at Hamilton on the 16th inst. The Petitioners objected to the work because they thought that an asphalt pavement constructed on the present base would be sufficient instead of proposed concrete base. The City Engineer stated that whilst there was a reasonably good macadam base on the road at present, this was not graded and it would have to be largely removed in order to get a proper grade; also that what would be left of the present macadam would be of little or no use.

The Petitioner's desire for a cheaper pavement was based to some extent on the fact that a considerable number of the properties on this street are owned by comparatively poor persons and that the cost for a pavement of the character proposed would bear heavily upon them.

In view of the evidence of the City Engineer, I cannot find that the present macadam base will be sufficient for the proposed roadway. I therefore recommend that the petition be dismissed, but I think the city authorities might well consider deferring the construction of the work until next year. There does not appear to be any very great urgency for it, and this would give the property owners at least a little relief.

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, July 21st, 1924.

Adopted as the basis of the Board's Order.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE 9371.

Application by The South Sarnia Properties, Ltd., under "The Planning and Development Act," for approval of plan of Lot B, Range 6; north and south parts of Lot A; and Nos. 8, 9, 10 and 11, Range 5; and Nos. 8, 9, 10 and 11, and all south part Lot 13, Range 4, on the plan of the subdivision of the unsurrendered portion of the Sarnia Indian Reserve, as prepared by S. Bray, O.L.S., Ottawa, Ontario, October 7th, 1893.

July 11th. Application filed.

July 29th. Hearing, pursuant to appointment, 11 a.m. to 12 m., at Board's Chambers. Plan to be amended as directed by the Board. (See Reporter's Notes.)

Sept. 10th. Further hearing, 2.30 p.m.; 3.15 to 4 p.m. Plan to be amended as directed by the Board. (See Reporter's Notes.)

PROCEDURE FILE 9385. (P. 473.)

Application by the City of Kitchener, under section 5, of "The Planning and Development Act," for approval of its By-law No. 1791 (as amended by its By-law No. 1802), defining zone districts, etc., and plan of same.

July 15th. Application and material filed.

July 29th. Formal application filed.

Sept. 9th. Hearing, 11.30 a.m. to 12.45 p.m., at Board's Chambers. By-law 1791 revised by Applicants and to be amended accordingly and new By-law passed. (See Reporter's Notes.)

Nov. 26th. Hearing, 1 to 3.15 p.m., Council Chamber, City Hall, Kitchener. By-law 1823 submitted. Amendments to be made to By-law 1791 and submitted to Board for approval.

Dec. 13th. Draft amendments to By-laws filed.
Dec. 20th. By-law No. 1834, amending By-law 1823, filed.
Dec. 30th. By-law No. 1835, amending By-law 1834, filed.
Dec. 31st. Order, approving By-law No. 1823, as amended by By-law 1834, as amended by By-law 1835, issued. (For form of Order, see files of Board.)

Procedure File 9386.

In the matter of the application of the Township of Brighton, under section 460 (9) of "The Consolidated Municipal Act, 1922," for relief from rebuilding bridge on allowance for road on the east side of Lot 25, Concession "A," of said township.

July 15th. Application and material filed.
Sept. 11th. Hearing, pursuant to appointment, 11.30 a.m. to 12.50 p.m., Township Hall, Village of Brighton. Application granted, township to pay Mr. Coulter $200 in full of all damages; parties to negotiate terms; Applicant's Solicitor to draft Order.

Procedure File 9394.

Application by the Township of York, under section 399a (2) of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 7663, to regulate the location of buildings on Eglinton Avenue within the Township of York.

July 17th. Application and copy of By-law filed.
Aug. 6th. Hearing, pursuant to appointment, 11 to 11.35 a.m., at Board's Chambers. (Vice-Chairman authorized under section 9, Chapter 186, R.S.O.) Application granted. (See Reporter's Notes *re* Remarks of Board as to form of By-law.) Applicant's Solicitor to draft Order.
Sept. 5th. Draft Order filed.
Sept. 5th. Order issued. (For form of Order, see files of Board.)

Procedure File 9425.

Between Morgan McMartin, Applicant; and The Westport Electric Light & Milling Co., Ltd., Respondent. (Application under section 21, Chap. 186, R.S.O., to compel Respondent to carry out terms of certain agreement, dated May 12th, A.D. 1916, *re* Electric Light Service.)

July 29th. Notice of application filed.
Sept. 16th. Hearing, pursuant to appointment, 10 a.m. to 12.30 p.m., Council Chamber, Village Hall, Westport. Reserved for sixty days to give Electric Light Company and Village Council opportunity to negotiate new agreement.
Dec. 18th. Opinion delivered.
Dec. 31st. Order.

Opinion of the Board.

The Applicant complained that the Westport Electric Light and Milling Company, Limited, was violating an agreement bearing date the 12th day of May, A.D. 1916, made between the Corporation of the Village of Westport and the Westport Electric Light and Milling Company, Limited, the agreement being for a period of ten years from July 1st, A.D. 1916.

The Board appointed Tuesday, the 16th day of September, A.D. 1924, at the Village Hall of Westport, to hear this complaint.

After hearing the evidence and perusing the agreement the Board decided to reserve judgment for sixty days, in order to give the Electric Light Company and the Village Council an opportunity to negotiate a new agreement, and in case of their failure to do so the Board would then render its Judgment.

At the expiration of the sixty days the Board enquired as to whether the parties had reached a satisfactory conclusion. The Board was then informed that the parties hereto expected to take some definite action; that the Council was considering the propriety of submitting to the ratepayers a proposition received from the Electric Light Company, with a view of voting thereon at the municipal elections, which would be held on the first Monday in January, A.D. 1925. Shortly afterwards the Board was further advised that the Council had decided not to submit the proposition to the ratepayers, which was received from Mr. Stonness on behalf of the company, as it did not appear to be satisfactory, and requested the Board to determine the rates to be charged by the Electric Light Company.

In regard to this enquiry it was clearly proved beyond question that the agreement entered into between the Electric Light Company and the Corporation of the Village of Westport had been violated by the company, inasmuch as the company was charging rates in excess of those provided for by the agreement.

The Board therefore finds that so long as the aforementioned agreement is in existence, the company must charge only the rates provided for in such agreement.

With regard to the Board fixing the rates as suggested by the Municipal Council of the Village of Westport, this cannot be done so long as the present agreement is in existence.

There will be no costs to either party on this application, but the Respondent will pay in Law Stamps upon the Order, $15.00.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, December 19th, 1924.

Procedure File 9426.

In the matter of an Appeal under Order of the Board, dated March 18th, 1920 (P.F. 5615), and in the matter of the annexation to Hamilton of part of the Township of Barton.

Between The Hamilton Jockey Club, Ltd., Appellants; and The Corporation of the City of Hamilton, Respondents.

July 28th. Notice of Appeal filed.

Aug. 15th. Notice of Appeal by the National Steel Car Corporation filed.

Sept. 18th. Hearing, pursuant to appointment, 10.30 a.m. to 1.30 p.m., Council Chamber, City Hall, Hamilton. Adjourned for two weeks. City Engineer to make estimate of cost of hypothetical sewage system for Homeside Avenue and submit to Applicants for scrutiny and expert advice. Case to be resumed if parties not satisfied with City Engineer's apportionment.

Sept. 30th. Appeal withdrawn.

Oct. 9th. Draft Order filed.

Oct. 15th. Order issued. (For Order, see files of Board.)

PROCEDURE FILE 9429. (P. 474.)

In the matter of the application of the Corporation of the City of Kitchener, under section 94 (11) of "The Public Health Act," for an Order prescribing the manner in which a sewer shall be constructed in "Spring Street Area."

July 31st. Application and material filed.

Sept. 3rd. Hearing, 10 to 10.30 a.m., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order and have same approved by the Township of Waterloo. (See Reporter's Notes.)

Sept. 8th. Approved draft Order filed.

Sept. 10th. Order issued. (For form of Order, see files of Board.)

PROCEDURE FILE 9431.

In the matter of the petition of O. Chartrand and others, under section 9 of "The Local Improvement Act," against the construction in the City of Ottawa of an asphalt pavement on St. Patrick Street, between Dalhousie and Charlotte Street.

Aug. 5th. Petition filed.

Sept. 5th. Hearing, pursuant to appointment, 10 to 11 a.m., Council Chamber, City Hall, Ottawa.

Sept. 18th. Report of Mr. Commissioner Ellis (under section 9, Chap. 186, R.S.O.) filed and adopted.

Oct. 2nd. Approved draft Order filed.

Oct. 2nd. Order issued. (For form of Order, see files of Board.)

REPORT OF MR. COMMISSIONER ELLIS.

I heard this case at the City of Ottawa on the 5th of September instant.

An asphalt pavement was constructed on this portion of St. Patrick Street in 1912, at a cost of $52,135.75; the estimated lifetime of the work was twenty years, and the first payment in connection with the debentures which were issued therefore commenced in 1913. The debentures have thus eight years yet to run.

The Engineer's report on the proposed work gives the estimated cost thereof as being $152,419.51, of which $115,409.75 is to be borne by the land abutting on the work and the share or proportion of the cost to be borne by the Corporation, $37,009.76. The city's share is made up of cost of construction opposite street intersections, $13,355.66, and cost of culverts and surface drainage, $23,654.10.

It was shown at the hearing that the present pavement is thirty-four feet wide and that double street railway tracks are laid upon the street. In addition to laying a new pavement to replace the present pavement, it is proposed to extend the present pavement by five feet on each side, making it forty-four feet in width. This involves the removal of certain existing concrete sidewalks and the replacement of them nearer the property line. The proposed work includes the construction of a new concrete base under the entire width of the new pavement, and also the construction of a deeper concrete base of twelve inches under the street railway.

I can find no authority in the Local Improvement Act for doing work of this character during the estimated lifetime of the existing work. The City, however, procured special legislation in the matter, being Section 12, c. 76, 13-14 Geo. V. Such special legislation provides that:

"The Council of the said Corporation may provide by a by-law or by-laws to be passed under the provisions of, and with the authority conferred by the Local Improvement Act, for undertaking and completing, and may undertake and complete, the pavements specified in clauses a and b of this subsection, and may assess and levy the cost thereof, in the manner authorized by the said Act, notwithstanding that the estimated lifetime of the pavements which such pavements will replace, either in whole or in part, has not expired, and that the debentures issued to provide for the cost thereof, have not been redeemed.

. . . . . .

(b) An asphalt and wood-block pavement on St. Patrick Street, from Dalhousie Street to the westerly approach to the St. Patrick Street bridge."

It was also provided by the special legislation that, in the event of the City acting under this authority, it should pay out of the general fund the balance remaining unpaid in connection with the debentures issued for the existing work.

The report of the City Engineer and the Board of Control, the Construction By-law and the Notice of Intention to undertake the work, all describe the work as an asphalt and wood-block pavement on St. Patrick Street, from Dalhousie Street to Charlotte Street. The intersection of the latter street with St. Patrick Street may be said to constitute the westerly approach to the St. Patrick Street bridge.

In my view, the legislation does not authorize the laying of a pavement ten feet greater in width than the existing pavement. The legislation appears to contemplate a pavement which will only replace, either in whole or in part, the existing pavement. Clearly the legislation does not authorize the moving back and reconstruction of existing sidewalks on the street in question.

There is a further defect in the proceedings, inasmuch as the widening of the pavement and the removal and reconstruction of the sidewalks are not specifically mentioned either in the reports of the City Engineer and the Board of Control, or in the Construction By-law or the Notice of Intention to undertake the work.

Fleming vs. Sandwich, 15 O.W.N. 275, and 44 O.L.R. 514;
Sarnia vs. McMurphy, 18 O.W.N. 206, and 47 O.L.R. 496;
Walkerville Boat Company vs. Ford City, 25 O.W.N. 652.

I recommend that the petition be allowed and that the work be not proceeded with under the present procedure.

I also recommend that there be no costs except that the city will pay $15.00, the Board's tariff fee for Law Stamps herein.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, September 18th, 1924.

Adopted as the basis of the Board's Order.

(Sgd.) D. M. McIntyre,
Chairman.

(Sgd.) A. B. Ingram,
Vice-Chairman.

PROCEDURE FILE 9444.

Application by the City of Peterborough, under section 295 of "The Consolidated Municipal Act, 1922," for validation of its By-law No. 2537, and the debentures thereunder ($14,250 for purchase of Dominion Dustless Sweeper).

Aug. 7th. Application and material filed.

Aug. 19th. Hearing, pursuant to appointment, 10 to 11.15 a.m., at Board's Chambers. Hearing concluded. Judgment reserved.

Aug. 20th. Order issued. (For Order, see files of Board.)

PROCEDURE FILE 9459.

Application by the Village of Forest Hill, under section 399a of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 28, to regulate the location of buildings on Eglinton Avenue within the east and west limits of the Village.

Aug. 13th. Application and material filed.

Sept. 3rd. Hearing, pursuant to appointment, 3 to 3.30 p.m., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

Sept. 13th. Draft Order filed.

Sept. 13th. Order issued. (For form of Order, see files of Board.)

PROCEDURE FILE 9476. (P. 482.)

Application by the Township of Etobicoke, under Chapter 62, Ontario Statutes, 1923 (13-14 Geo. V), as amended, for approval of its By-law No. 1610, to construct, maintain and operate a System of Water Mains in Area No. 7 ($95,000).

Aug. 21st. Application and material filed.

Sept. 17th. Hearing, pursuant to appointment, 10 to 11.15 a.m., at Board's Chambers. Area to be altered as directed by the Board. (See Reporter's Notes.) Boundary to run in centre of Islington Avenue. (See P.F. 9476-A.)

PROCEDURE FILE 9476-A.

Oct. 2nd. Application for approval of Area No. 7, altered as directed by the Board (see Notes of Hearing, P.F. 9476) and copy of By-law 1623 filed.

Oct. 13th. Order issued. (For Order, see files of Board.)

PROCEDURE FILE 9476-B.

Dec. 29th. Application for approval of Water Area No. 7, extended so as to include property of Henry McGee, and copy of proposed By-law therefor, filed.

PROCEDURE FILE 9479. (P. 483.)

Application by the Township of Etobicoke, under Chapter 62, 13-14 Geo. V, and amendments thereto, for approval of its By-law No. 1612, setting apart a defined area as Water Area No. 8, and for the construction of a water system therein.

Aug. 22nd. Application and material filed.

Sept. 17th. Hearing, pursuant to appointment, 10 a.m.; 11.40 a.m. to 1 p.m., at Board's Chambers. Application granted. Order to be drafted by Applicant's Solicitor.

Sept. 19th. Draft Order filed.

Sept. 19th. Order issued. (For form of Order, see files of Board.)

Procedure File 9480. (P. 484.)

Application by the Township of Etobicoke, under Chapter 63, 13-14 Geo. V, and amendments thereto, for approval of its By-law No. 1611, setting apart a defined area as Water Area No. 9, and for the construction of a water system therein.

Aug. 22nd. Application and material filed.

Sept. 3rd. Hearing, pursuant to appointment, 10 a.m.; 11.15 a.m. to 11.40 a.m. Judgment reserved for one month. Applicant in interim to obtain Board of Health's Report on wells and proposed supply. Contra petition may be filed on or before October 13th, 1924, with Township Clerk. Hearing adjourned to October 16th, 1924, at 10.30 a.m., at Board's Chambers.

Oct. 16th. Hearing continued, 10.30 to 11.15 a.m. Application granted. Applicant's Solicitor to draft Order.

Oct. 18th. Draft Order filed.

Oct. 20th. Order issued. (For form of Order, see files of Board.)

Procedure File 9482.

Application by the Township of North Grimsby, under section 120 of "The Ontario Railway Act," for approval of plan, etc., of proposed Highway Crossing over The Hamilton, Grimsby & Beamsville Electric Railway at Central Avenue, in the Township of North Grimsby.

Aug. 23rd. Application and material filed.

Sept. 19th. Hearing, pursuant to appointment, 1 p.m., Council Chamber, Town of Grimsby. Order to be drafted by Mr. Waller and submitted to the township for approval. Township of North Grimsby to pay for planking of road crossing and sidewalk, also railway signs; work to be done by the Hamilton, Grimsby & Beamsville Electric Railway and paid for by township; township to pay Law Stamps.

Sept. 22nd. Report of Vice-Chairman (under section 9, Chap. 186, R.S.O.) filed and adopted.

Oct. 4th. Draft Order filed.

Oct. 21st. Order issued. (For form of Order, see files of Board.)

Report.

The undersigned, in accordance with and pursuant to Section 9 of "The Ontario Railway and Municipal Board Act," attended at the Council Chamber in the Town of Grimsby, on the 19th instant, at the hour of one o'clock in the afternoon, for the purpose of hearing this application. Mr. G. B. McConachie appeared as Counsel for the Applicant; Mr. R. N. Rutherford, Engineer, for the Township of North Grimsby and the County; Mr. W. M. Stewart, Deputy Reeve, for North Grimsby; Mr. Geo. E. Waller, General Superintendent, and Mr. C. K. Green, Engineer, for the Hamilton, Grimsby & Beamsville Railway; and Mr. H. W. Middlemist, Engineer, for the Board.

Copy of the appointment was served on the Company, and proof of service filed.

After hearing the statements of the parties herein the hearing was adjourned in order to have a view of the location in question. On resuming the hearing it was agreed that any planks required to complete the travelled portion of the crossing to a width of 24 feet, and the planks necessary for the extension of the sidewalk across the crossing were to be paid for by the township.

Any filling and grading necessary on the township portion of the crossing was to be done by the township, and the county is to fill in and grade its portion of the crossing. This work is to be done by the railway company and charged up against the township, the county of course to be liable for the filling in and grading of its portion of the crossing where necessary.

The draft Order is to be prepared by Mr. Waller on behalf of the railway company and is to be submitted to Mr. McConachie for his approval, and in case of dispute the Order is to be settled by Mr. Small, Secretary of the Board.

The Board's fee for Law Stamp, $15.00, is to be paid by the township.

Respectfully submitted,

(Sgd.) A. B. Ingram,
Vice-Chairman.

Toronto, September 22nd, 1924.

I approve of this Report being adopted as the basis of the Board's Order.

(Sgd.) D. M. McIntyre,
Chairman.

Procedure File 9489.

Application by the Corporation of the City of Belleville, under section 21 of "The Consolidated Municipal Act, 1922," for annexation thereto of part of the Township of Thurlow (upon which is situate the factory and premises of The Alemite Products Co. of Canada, Limited).

Aug. 27th. Copy of resolution of City Council filed.

Sept. 12th. Hearing, pursuant to appointment, 10 a.m., Council Chamber, City Hall, Belleville. Annexation decreed as to Baldwin Ward, on 1st October, 1924, subject to adjustment of assets and liabilities. Mr. O'Flynn to prepare a statement of township and county and school board as to assets, etc., and submit copy to Col. R. S. Carman and Mr. Graham, they to have right to reply. Board reserves question of terms of annexation.

Sept. 26th. Statement of claims of County of Hastings, Township of Thurlow, and S.S. No. 5 in Township of Thurlow, filed.

Oct. 10th. Statement of Defence by Alemite Products Co., Ltd., filed.

Oct. 18th. Statement of Defence by City of Belleville filed.

Oct. 29th. Opinion of Board delivered.

Nov. 22nd. Approved draft Order filed.

Nov. 24th. Order issued.

Opinion of the Board.

This is an application by the Corporation of the City of Belleville, under section 21 of "The Consolidated Municipal Act, 1922," for annexation thereto of that part of the Township of Thurlow adjacent to the City of Belleville, upon which is situate the factory and premises of the Alemite Products Company of Canada, Limited. The Board, pursuant to appointment, held a hearing at Belleville, at which all parties in interest were heard. Annexation was granted subject to delay in order to allow Mr. O'Flynn, who represented the County, Township and School Board, time to file statement of claim of the County of Hastings, the Township of Thurlow, and School Section No. 5 in the Township of Thurlow.

After careful consideration of the Statement of Claim the Board is of opinion that:

1. The annexation should date from the 31st day of December, A.D. 1924, instead of the 1st day of October, A.D. 1924, as decided at the hearing, in order to avoid any complications in the settlement of the taxes for the year.

2. That neither the County of Hastings nor the Township of Thurlow has any claim in respect of the matters set out in the Statement of Claim filed herein in regard to the fixed assessment given by the Township to the Company.

3. Regarding the claim made in respect of the debentures issued, and to be issued, covering the erection of the school as now erected in School Section No. 5, in the said Township of Thurlow, this is a matter to be dealt with by the parties when adjustment is made of the assets and liabilities between the Township and the City of Belleville, as provided for in section 38 of "The Consolidated Municipal Act, 1922."

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, October 29th, 1924.

Procedure File 9491.

In the matter of the application of the United Township of Morley, under section 18 (1) of "The Consolidated Municipal Act, 1922," for annexation thereto of part of the Township of Chapple (certain sections in Townships of Tait and Shenstone).

Aug. 29th. Application and material filed.

Dec. 8th. Hearing, pursuant to appointment, 1.30 to 4.40 p.m., at the Municipal Office in Stratton. Judgment reserved, pending better construction of roads and effort of Council of Chapple to meet the alleged grievances of the Applicants.

Procedure File 9495.

Application by the City of Ottawa, under section 399a of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 5789, prohibiting the use of land or the erection or use of buildings on certain parts of Clemow Avenue for any other purpose than that of a detached private residence.

Sept. 6th. Application and material filed.

Sept. 26th. Hearing, pursuant to appointment, 10 to 10.30 a.m., Council Chamber, City Hall, Ottawa.

Sept. 26th. Report of Mr. Commissioner Ellis (under section 9, Chap. 186, R.S.O.) filed, and adopted as the basis of the Board's Order. Application granted.

Oct. 2nd. Approved draft Order filed.

Oct. 2nd. Order issued. (For Order, see files of Board.)

REPORT OF MR. COMMISSIONER ELLIS.

No one appearing in opposition, and the By-law appearing to be regular in form, I recommend that the application be granted.

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, September 26th, 1924.

Adopted as the basis of the Board's Order, Sept. 29th, 1924.

(Sgd.) D. M. MCINTYRE,
Chairman.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE 9510.

Between The Greenbush Women's Institute, Spencer Anderson and others, Applicants; and J. A. Cole and Claude Lobb (trading as The Marysburg Telephone Co.), Respondents. (For an Order, under section 80 of "The Ontario Telephone Act, 1918," prescribing the terms upon which the Respondents shall furnish the Applicants with telephone service).

Sept. 16th. Application, etc., filed.

Sept. 25th. Hearing, pursuant to appointment, 2.30 p.m., at Shire Hall, Picton (Chairman of the Board authorized under section 9, Chap. 186, R.S.O.), Board's Inspector of Telephone Service, to meet parties at Picton, on Thursday, Oct. 2nd, 1924. Judgment deferred in order to enable parties to enter into negotiations for agreement.

PROCEDURE FILE 9514.

Between The Bradden Telephone Co., Ltd., Applicant; and The Municipal Corporation of the County of Hastings, Respondent. (Application under section 7 of "The Obstruction on Highways Act" (12 Geo. V, c. 82), for an Order apportioning the cost between the Applicant and the Respondent of removal of certain poles by the Applicant upon and along the Fourth Concession of the Township of Thurlow, in the County of Hastings.)

Sept. 17th. Application filed.

Sept. 26th. Hearing, pursuant to appointment, 9.30 to 11.45 a.m.

Oct. 8th. Report of Chairman (under section 9, Chap. 186, R.S.O.) filed and adopted.

Oct. 8th. Order. (For form of Order, see files of Board.)

REPORT.

Having heard the evidence adduced on behalf of the Applicant and Respondent, pursuant to Notice of Appointment for Hearing in the matter of the above application, it is recommended that the sum of Eighty-six dollars ($86) be borne and paid by the Respondent, the Municipal Corporation of the County of Hastings, to the Applicant, the said amount to be in full discharge of all claims in respect of the cost of all work in connection with the removal of the poles and wires referred to in the said application.

(Sgd.) D. M. MCINTYRE,
Chairman.

Toronto, October 8th, 1924.

Procedure File 9521.

Between The Corporation of the Township of North York, Appellant; and The International Mausoleum Co. and The Forest Lawn Cemetery Co., Ltd., Respondents. (Assessment Appeal, $102,500—Real property, $2,500; Buildings, $100,000.)

Sept. 20th. Notice of Appeal filed.

Oct. 15th. Hearing, pursuant to appointment, 10.30 to 11.30 a.m., at Board s Chambers. Appeal dismissed. Appellant's Solicitor to draft Order and submit to Respondent's Solicitor for approval.

Oct. 22nd. Draft Order filed.

Nov. 4th. Order issued. (For form of Order, see files of Board.)

Procedure File 9522.

Application by the Township of Caradoc, under section 460 (9) of "The Consolidated Municipal Act, 1922," for relief from rebuilding bridge over Creek on road between Lots 20 and 21, in First Range north of the Longwoods Road in said Township.

Sept. 23rd. Application filed.

Oct. 30th. Hearing, pursuant to appointment, 9.30 a.m. to 1.30 p.m., Community Hall, Mount Bridges. Application refused.

Procedure File 9524.

In the matter of a joint application by The Stevenson Place Suburban Service Board, and the Corporation of the City of Ottawa, under the provisions of "The Suburban Area Development Act, 1921," for approval of certain agreement, dated the 13th day of September, 1924.

Sept. 23rd. Application and agreement filed.

Oct. 8th. Hearing, pursuant to appointment, 10 to 11 a.m., Council Chamber, City Hall, Ottawa. Petition to be prepared and signed by both sides (for and against). Proceedings adjourned to October 24th, 1924, at 10 a.m., City Hall, Ottawa. (If majority of property owners petition against the work, Board will refuse approval of this agreement, and *vice versa*.)

Oct. 24th. Hearing continued, 10 to 11 a.m.

Oct. 27th. Report of Mr. Commissioner Ellis (under section 9, Chap. 186, R.S.O.) filed and adopted. Agreement approved.

Oct. 27th. Order. (For form of Order, see files of Board.)

Report of Mr. Commissioner Ellis.

This application was made under the provisions of section 7 of "The Suburban Area Development Act, 1921." The suburban area known as "Stevenson Place" was established under the provisions of the Statute mentioned by the Township of Nepean, on the 23rd July, 1923. The By-law establishing such suburban area recites that a petition purporting to be signed by a large majority of the ratepayers within the area had been presented to the Council of the township, praying that a By-law be passed to establish same.

A Suburban Service Board was duly elected and entered into an agreement with the City of Ottawa, whereby the City undertook to supply water for domestic and fire purposes and to afford an outlet for certain sewers. The service watermains and sewers are to be constructed as local improvements.

The application for the approval of the agreement was heard by me on the 8th October, 1924.

There was considerable opposition to the application, it being alleged that the terms imposed by the City of Ottawa under the agreement mentioned were too onerous and that as a result a large number of the residents of the suburban area did not now desire the matter to be proceeded with. I adjourned the application until the 24th October, in order to give all parties an opportunity to get together and present petitions for and against the agreement. Such petitions were presented to me when I again heard the application on the 24th inst. After going over such petitions, I found that thirty-eight property owners were in favour of the agreement and thirty opposed.

In my view the agreement is not an unreasonable one, and I see no reason for the Board refusing its approval on the ground that any of the terms of it are too onerous. It appears clear that the majority of the property owners are in favour of the agreement. I therefore recommend that the Board approve the agreement.

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, October 27th, 1924.

Adopted.

(Sgd.) D. M. McIntyre,
Chairman.

(Sgd.) A. B. Ingram,
Vice-Chairman.

Procedure File 9526.

Application by Elijah D. Campbell (owner of the land), under section 21a of "The Consolidated Municipal Act, 1922," for detachment of certain farm lands from the Town of Midland and the annexation of same to the adjoining Township of Tay.

Sept. 24th. Application and material filed.

Nov. 12th. Hearing, pursuant to appointment, 10 a.m. to 4 p.m., at Council Chamber, Midland. Adjourned *sine die* to give parties an opportunity to agree on property to be separated from town; if no agreement made, application to be dismissed and new application made as to land south of house.

Procedure File 9530.

In the matter of the petition of The Public Works Department of the Dominion Government, under section 9 of "The Local Improvement Act," against the present construction of a concrete sidewalk on the west side of Sussex Street, between St. Patrick Street and a point thirty-two feet south of the north limit of Lot "F," in the City of Ottawa.

Sept. 29th. Petition filed.

Oct. 31st. Hearing, pursuant to appointment, 10 to 10.30 a.m., at Council Chamber, City Hall, Ottawa. (Mr. Commissioner Ellis authorized under section 9, Chap. 186, R.S.O.). Local Improvement Report withdrawn by the City.

Procedure File 9535.

Application by the City of Toronto, under section 399a of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 10142, amending its By-law No. 8815, by repealing same as to No. 22 Roxborough Street West.

Oct. 2nd. Application and copy of By-law filed.

Oct. 28th. Hearing, pursuant to appointment, 10.30 to 10.55 a.m. City Council to consider passing By-law limiting property No. 22 Roxborough Street West to use as a duplex. (See Reporter's Notes.)

Nov. 7th. Certified copy of By-law 10187 filed.

Dec. 5th. Order, approving By-law 10187, issued. (For Order, see files of Board.)

Procedure File 9536. (P. 485.)

Application by the City of Toronto, under section 399a (2b) of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 10129, repealing its By-law No. 9188, so as to permit certain alterations of 190 St. George Street into an Apartment House.

Oct. 2nd. Application and copy of By-law filed.

Oct. 28th. Hearing, pursuant to appointment, 10.30 a.m.; 10.50 a.m. to 4.30 p.m. Judgment reserved.

Nov. 6th. Judgment delivered, dismissing application.

Nov. 6th. Dissenting Judgment by Vice-Chairman.

Opinion of the Board.

The Board is of the opinion that it should withhold its approval in this case.

By force of the provisions of By-law No. 6061 of the City of Toronto, passed May 13th, 1912, the erection, amongst other things, of apartment and tenement houses upon certain streets was prohibited. This By-law was in force in respect of the street in question here, and was passed pursuant to authority vested in the Municipal Council by section 10 of 2 George V, Chapter 40. The approval of the Board is not required either for the effective passage, repeal or amendment of this By-law, and therefore is not necessary to the validity of paragraph I of By-law No. 10129.

By-law No. 9188 was passed on May 29th, 1922, pursuant to powers conferred on the Council under section 399 (a) of "The Municipal Act." This By-law prohibited the use of land or the erection or use of buildings abutting on the portion of St. George Street in question here for any other purpose than that of a private detached residence. By an amendment to section 399 (a) of "The Municipal Act" passed in the Session of 1924 (14 George V, Chapter 53, section 12), the Council was authorized to pass By-laws setting forth the specific purposes for which the lands and buildings within the defined area might be erected and used. It is under this amendment that the City Council assumes to pass paragraph II of By-law No. 10129 in amendment of By-law No. 9188, and this paragraph requires for its validity the approval of this Board.

The effect of By-law No. 10129, if approved by the Board, will be to permit the building and premises bearing No. 190 on St. George Street to be converted into an apartment house. It was given in evidence at the hearing that such conversion as proposed would degrade the street from its present status of a high-class residential district, and would seriously impair the market value of the properties on it. In this conclusion the property owners on the street agreed by an enormously preponderating majority. That such a result is to be apprehended would appear from the very fact that the Legislature thought fit, in the year 1912, to pass the enactment above referred to, authorizing the prohibition by By-law of the location on certain streets of apartment or tenement houses.

When the Board was vested with the powers conferred by section 399 (a) of "The Municipal Act," as amended, the legislation set out clearly the tests to be applied in determining whether the Board should or should not approve. These tests are set out in paragraphs (i), (ii) and (iii) of subsection 2 of section 399 (a), which read as follows:

> "(i) The purpose for which the original By-law was passed and the nature and class of occupancy and use of the land within the area or abutting on the highway at the time the By-law was passed;
>
> "(ii) Any change which may since have taken place affecting its suitability for such occupancy or use, and
>
> "(iii) The desirability of the proposed repeal or amendment in the interests of the owners of the land in the district affected and of the community as a whole."

As to the nature and class of occupancy and use of the land on this street when the original By-law was passed, there can be no doubt it was a high-class residential district, the kind of areas or districts which this legislation aimed to protect. There were, it is true, a number of duplex and semi-detached houses and *quasi* public buildings within the area, but the great majority of the erections were high-priced detached private residences. The object of the legislation and original By-law was clearly to preserve the district and street as it was and to prevent their further deterioration.

No evidence was submitted to satisfy the test laid down by paragraph (ii) showing or tending to show any change which had taken place affecting the suitability of this area or highway for occupancy or use as a restricted residential district. Indeed, the evidence all pointed to the conclusion that no substantial change in these respects had taken place since the passage of the original By-law.

Neither was any evidence given under paragraph (iii) to show the desirability of the proposed amendment in the interests of the owners of the land in the district and of the community as a whole. On the contrary, the owners of the land in the district—who must be assumed best qualified to speak upon the matter—are overwhelmingly against the amendment.

The general conclusion to be drawn from the foregoing is, it seems to the Board, that when a By-law constituting a restricted area is passed by the Council, it is intended by the Legislature that a certain fixity of status should thereafter inhere in the properties affected, and that this status should not be lightly changed. Relying on the assumed permanence of such a By-law, properties within the restricted area are bought and sold. The intention of the Legislature is reasonably clear, and the limitations upon the Board's powers as to approving or not approving are also clear as enumerated in the paragraphs of section 399 (a) above considered in detail.

The application will be dismissed and the Board's approval withheld. There will be no costs to any of the parties, but the City will pay in Law Stamps on the Order, $10.00.

(Sgd.) D. M. McIntyre,
Chairman.

Toronto, November 6th, 1924.

I agree,

(Sgd.) J. A. Ellis,
Commissioner.

Dissenting Opinion of Vice-Chairman.

In dissenting from the finding of my colleagues, I do not intend to elaborate on the various By-laws which have been before the Board from time to time in regard to similar matters concerning St. George Street, nor to the provisions of the various Acts under which the Board exercises its limited jurisdiction, as they have been fully set out in the finding of my colleagues. It is sufficient for me to contend that it is discretionary with the Board to approve, or withhold, its approval of the By-law in question.

On the 10th day of April, 1922, while hearing an application for the approval of By-law No. 8997, in regard to St. George Street, the Chairman is reported to have used these words: "No doubt in a community like this there ought to be reasonable restrictions. For the protection of interests that have grown up, these restrictions should not be carried to the point where they constitute a hardship and almost to confiscation." I quite agree with this view, and the refusal to approve of this By-law is in my opinion equivalent to confiscation.

In considering the application herein it would appear that Mr. Gooderham has made an honest effort to sell his property on St. George Street, and failing to sell, he has endeavoured to rent it. Neither effort being successful, he has resorted to the only alternative left him in order that he may realize some income from his property, which has been standing vacant for some considerable time.

In the drawing up of his plans he has apparently taken into account his surroundings by attempting to make as little change as possible in the exterior outlook of his building by simply bricking up the front verandah which faces St. George Street, and by the erection of an additional staircase in the rear of the building which fronts on Lowther Avenue, the interior of the building to be divided into four or six high-class apartments.

Those opposed to those changes contended, among other things, that the approval of this By-law would mean the lowering of values of the properties on the street; the encouragement of other owners to make similar applications for exemption, and the creation of a greater number of delivery vehicles delivering meat, milk, groceries, dry goods, etc., which would occur as a result of such exemption, and thus become a nuisance to the residents of St. George Street.

As regards the question of values, the evidence given by the real estate experts would appear to be the very reverse of this contention, in fact they contended that values would be improved.

In the event of other property owners making an application for exemption, their cases would require to stand on their own merits, just as this and previous applications were required to do.

As to the so-called nuisance above mentioned, the deliveries would be made through entrances located on Lowther Avenue, and from a street where a half or more of the present block is already exempted from any restrictions, consequently such deliveries would not affect the residents on St. George Street.

By-law No. 10129 was passed by the City Council by a substantial majority (seventeen voted in favour of the By-law and six voted against it) after a very protracted discussion of its merits, and it is reasonable to assume that the Mayor and members of the City Council know their business, understand their own local conditions, are fully alive to their own requirements, and are perfectly competent to protect their own interests, and in case of their failure to do justice to the citizens whose municipal business they are elected to transact and protect, the remedy is then in the hands of the municipal electors.

When taking into account the location of the building in question, 190 St. George Street (corner of St. George Street and Lowther Avenue), and the prop-

erties already exempted in the immediate vicinity, such as the Christian Science Church located on the opposite corner, Havergal College Preparatory School, the second building to the south; the property adjoining No. 190 in the rear, the York Club and the Sweeney property at the corner of Bloor and St. George Streets, it does seem to me unreasonable to refuse the approval of this By-law.

For the reasons I have set forth herein I am in favour of the approval of By-law No. 10129.

(Sgd.) A. B. Ingram,
Vice-Chairman.

Toronto, November 6th, 1924.

Procedure File 9548. (P. 478.)

Application by Wm. Hastie and others, under section 21a of "The Consolidated Municipal Act, 1922," for detachment of certain farm lands from the Village of Wroxeter and the annexation of same to the Townships of Howick and Turnberry.

Oct. 8th. Application and material filed.

Dec. 17th. Hearing, pursuant to appointment, 10 a.m. to 3 p.m., Council Chamber, Village of Wroxeter. Application granted, detachment to take effect January 1st, 1925. Board to consider question of publication of Order in *Ontario Gazette.* (Parties contend one insertion sufficient, and that it is very expensive.)

Procedure File 9557.

Application by the Township of Scarborough, under section 12 (3) of Chap. 88, 13-14 Geo. V (1923), for approval of its proposed By-law No. 1291, to set apart a defined area and construction of system of storm sewers, to be known as "Sewerage Area No. 1."

Oct. 10th. Application and material filed.

Oct. 27th. Hearing, pursuant to appointment, 11 to 11.30 a.m., at Board's Chambers. Section 7 of By-law to be amended—words "by it" after word "applied" to be struck out. Application granted. Applicant's Solicitor to draft Order.

Oct. 29th. Draft Order filed.

Oct. 31st. Order issued. (For form of Order, see files of Board.)

Procedure File 9562.

In the matter of an application by the Corporation of the Township of York, for determination of the proportion of Local Improvement charges payable to the said Corporation by the Township of North York.

Oct. 13th. Application filed.

Oct. 17th. Reply by Township North York filed.

Nov. 17th. Hearing, pursuant to appointment, 10.30 to 11 a.m., at Board's Chambers. Hearing adjourned to 16th December, 1924, at 10.30 a.m. (See Reporter's Notes.)

Dec. 16th. Hearing continued, 10.30 a.m. to 12.30 p.m. Judgment reserved.

Procedure File 9578.

Application by the City of Toronto, under section 399a (2b) of "The Consolidated Municipal Act, 1922," for approval of its By-law 10155, repealing By-law 9332 as to premises Nos. 25 and 27 Newmarket Avenue, to allow the erection of a pair of semi-detached private dwelling houses.

Oct. 27th. Application and copies of By-law 10155 filed.

Nov. 18th. Hearing, pursuant to appointment, 11 to 11.30 a.m., at Board's Chambers. Proof of advertisement of Notice of Hearing to be filed. Application granted (subject to proof that majority of owners on Newmarket Avenue do not oppose application and that buildings herein are appropriate to district and in demand for occupancy). (See Reporter's Notes.) City Solicitor to draft Order.

Dec. 4th. Draft Order filed.

Dec. 4th. Order issued. (For form of Order, see files of Board.)

Procedure File 9580.

Between The Commissioners for the Telephone System of the Municipality of Howick, Applicants; and The Minto Rural Telephone Co., Ltd., Respondents. (Application under section 107 of "The Ontario Telephone Act, 1918," *re* paralleling by the Respondent of the pole leads of the Applicant's system on the 9th Concession of Minto and Howick and Minto Bay, contrary to section 78 of the above Act.)

Oct. 28th. Application filed.

Dec. 17th. Hearing, pursuant to appointment, 1.30 to 2.15 p.m., Council Chamber, Wroxeter. If agreement not arrived at between parties by March 1st, 1925, Board will issue Order for removal of poles.

Procedure File 9588. (P. 481.)

In the matter of the application of the Toronto Transportation Commission, under Section 256 of "The Ontario Railway Act," as amended by Chap. 30, section 3, 1918, for approval of new type of one-man car having a rear exit door.

Oct. 31st. Application, blue print plan (DrawingNo. A-2127) in triplicate, and blue prints of traffic and service chart, filed.

Nov. 3rd. Report of Vice-Chairman filed and adopted.

Nov. 5th. Order. (For form of Order, see files of Board.)

Report.

The Toronto Transportation Commission has made an application to the Board for approval of the type of one-man car as described in Plan A-2127. This plan shows the various measurements and improvements in connection therewith.

At the invitation of Mr. Harvey, General Manager of the Toronto Transportation Commission, I made an inspection of Car No. 1850, in company with Mr. Harvey, the General Manager; Mr. Fairty, Solicitor; and Mr. McCrea, Mechanical Superintendent; and other officials of the Toronto Transportation Commission; and Mr. Crosland, the Board's Street Railway Inspector, and found this car quite complete in every way for one-man operation. It is a double-truck car with a seating capacity of fifty-one passengers, the car weighing about 47,040 pounds. One of the chief devices in connection with it is the rear end door controlled by a treadle which appeared to work very satisfactorily during this test. In regard to this latter I made a very thorough investigation at Atlantic City, while attending the convention of the American Electric Railway Association, of the working of this treadle as well as of the door device. On being referred to an official of a company in Washington operating one-man cars with this device, I made very full enquiries from him as to the working of it,

and he assured me that the type of one-man car operated in Washington with this rear exit device was working most satisfactorily, and that our Board need have no hesitation in approving of any type of car having this treadle in use upon such cars. You will note that the rear exit door, operated as this is, will induce passengers to go towards the rear of the car rather than block up the front entrance as has been so frequently done on cars of a one-man type, such as we have already approved.

The approval of Car No. 1850 will mean that cars numbering from 1804 to 1926, inclusive, are to be converted into this type. I need not specify the various measurements or kind of seating, etc., as all these are specified in the plan submitted for the Board's approval under Procedure File 9588, Plan 481.

This application would also include the approval of additional routes over which these and other one-man cars are to be operated, such as St. Clair Avenue and Dovercourt Road.

Personally I would strongly recommend the approval of this type of car for use by the Toronto Transportation Commission, and that these and other types of one-man cars approved by the Board may be permitted to run over St. Clair Avenue and Dovercourt Road routes, in addition to the routes already approved.

Respectfully submitted,

(Sgd.) A. B. INGRAM,
Vice-Chairman.

Toronto, November 3rd, 1924.

Agreed,

(Sgd.) D. M. McINTYRE,
Chairman.

PROCEDURE FILE 9592.

Application by E. T. Stephen Co., Ltd., under "The Ontario Railway Act," for crossings of The Hydro-Electric Railway (Toronto & York Radial Railway, Metropolitan Division) on Yonge Street, at Morgan Avenue and Powell Street, in the Township of Markham, County of York. (Registered Plan 2426.)

Oct. 31st. Application and blue print drawings showing location of streets, filed.

Nov. 25th. Hearing, pursuant to appointment, 11 to 11.30 a.m., at Board's Chambers. Application granted. Expense to be borne by the Applicant. Hydro Commission to file estimate of cost; such sum to be deposited by Applicant with Commission. Board's Engineer will collaborate and certify to Board. (See Reporter's Notes.)

Dec. 4th. Engineer's Report filed.

ENGINEER'S REPORT.

December 4th, 1924.

THE CHAIRMAN,
The Ontario Railway and Municipal Board, Toronto.

SIR,—

On Monday afternoon last, December 1st, I went with Mr. T. U. Fairlie, of the Hydro-Electric Power Commission, to Morgan's Hill, a quarter of a mile north of Stop 13 on the Metropolitan Branch of the Toronto and York Radial Railway on Yonge Street, to examine the proposed location of the road crossings at Morgan Avenue and Powell Avenue, leading into Yonge Street from the east side and crossing the railway at those points.

The two streets above mentioned are being laid out by Messrs. E. T. Stephens & Company, Real Estate Agents, who own the property adjoining the east side of Yonge Street at this place and who are anxious to cross the railway on to that street. We met their agent on the ground and the following terms were agreed to between him and Mr. Fairlie.

(1) With regard to the crossing at Morgan Avenue the Hydro-Electric Commission is to make a gravelled crossing twenty feet wide on the track and to the right-of-way line, and to put up a crossing sign marked "Railway Crossing" for which they are to receive $25.00, and Messrs. Stephens are to fill up the present surface of the road so as to remove the existing steep approach to the crossing and to gravel the surface and do any other grading on the road where necessary. There is a power line pole within the street line, but it need not be removed for the present crossing.

(2) Powell Avenue is at present an ungraded lane about twenty-one feet wide, which is to be graded in the spring. It is at present two or three feet above the railway and will be cut down by the real estate company level with the railway. They are also to trim a tree standing at the southwest corner next the railway to give a clear view, and to gravel the road surface. The Hydro-Electric Commission will put in a gravelled crossing twenty feet wide when the road is finished, and a sign board marked "Railway Crossing," the cost to the Real Estate Company to be $25.00.

When these crossings are completed as above described, they will be satisfactory to me.

Yours truly,

(Sgd.) H. W. Middlemist,
Engineer.

Procedure File 9602.

Application by the Commissioners for the Telephone System of the Municipality of Oliver, under section 88 of "The Ontario Telephone Act, 1918," for authority to increase charges for service.

Nov. 6th. Application filed.

Dec. 6th. Hearing, pursuant to appointment, 11 to 11.30 a.m., Council Chamber, Fort William. Application granted.

Procedure File 9609.

In the matter of the petition of W. H. Flaherty and others, under section 21 of "The Consolidated Municipal Act, 1922," for annexation to the City of Toronto of part of the Township of East York.

Nov. 8th. Petition and other material filed.

Nov. 25th. Hearing, pursuant to appointment, 11 a.m.; 11.30 a.m. to 12.55 p.m. Application granted. (See Reporter's Notes.) Applicant's Solicitor to draft Order and submit to parties for approval.

Dec. 29th. Approved draft Order filed.

Procedure File 9621.

Application by the estate of Matthew Harris (Jno. Harris and Adrian Hickey, Executors), owner, under "The Planning and Development Act," for approval of plan of part Lot "A" (plan 500), on the southerly side of Denison Road; also northeasterly part of Lot "U" on the northerly side of St. John's Road, Town of Weston, County of York.

Nov. 15th. Application and material filed.

Dec. 3rd. Hearing, pursuant to appointment, 11 a.m. to 12 m. Plan approved. (See Reporter's Notes.)

PROCEDURE FILE 9630.

Application by the Township of Scarborough, under Chapter 88, 13-14 Geo. V, Ontario Statutes, 1923, for approval of its proposed By-law No. 1296, to set apart a further defined area to be known as "Water Area No. 4."

Nov. 20th. Application and material filed.

Dec. 15th. Hearing, pursuant to appointment, 10.30 to 11 a.m., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

PROCEDURE FILE 9631.

Application by the Municipal Union of Rainy River, under section 88 of "The Ontario Telephone Act, 1918," for approval of charges for interchange of service between the telephone systems of the Municipalities of Fort Frances, Alberton, La Vallee, Emo, Chapple, Morley, Worthington, Atwood and Rainy River.

Nov. 20th. Application, etc., filed.

Dec. 8th. Hearing, pursuant to appointment, 10 a.m., Public Hall, Stratton. Rates approved, subject to the filing of an agreement for division of rates between various systems.

PROCEDURE FILE 9632.

Application by Arthur J. Best, *et al.*, under section 33 of "The Ontario Telephone Act, 1918," for an Order determining the validity of the special rate levied by the Municipal Corporation of Paipoonge for telephone service under the provisions of Part II of "The Ontario Telephone Act, 1918."

Nov. 20th. Application and material filed.

Dec. 6th. Hearing, pursuant to appointment, 10 to 11 a.m., Council Chamber, Fort William. Verbal judgment delivered that Arthur J. Best and T. Ridler, not having signed the petition, are not subscribers as defined by section 2 of "The Ontario Telephone Act, 1918," and therefore can only be charged as "Renters" for service actually furnished.

PROCEDURE FILE 9635.

Application by The Nelson Telephone Co., Ltd., under section 87 of "The Ontario Telephone Act, 1918," for approval of sale of its undertaking to The Bell Telephone Company of Canada, Ltd.

Nov. 22nd. Application filed.

Dec. 30th. Hearing, pursuant to appointment, 10.30 to 11.45 a.m., at Court House, Milton. (Chairman of the Board authorized under section 9, Chap. 186, R.S.O.). Adjourned until Tuesday, January 13th, 1925, at 3.15 p.m.

PROCEDURE FILE 9637.

Application under section 87 of "The Ontario Telephone Act, 1918," for approval of sale by Nelson Monteith and John Dempsey (trading as The Monteith-Dempsey Telephone System) of the entire plant and equipment of the said system to The Bell Telephone Co. of Canada, Ltd.

Nov. 22nd. Application filed.

Dec. 16th. Hearing, pursuant to appointment, 2 to 2.30 p.m., at Court House, Stratford. (Mr. Ingram authorized under section 9, Chap. 186, R.S.O.).

Dec. 20th. Report of Vice-Chairman, recommending that agreement be approved, filed and adopted.

Dec. 20th. Order. (For form of Order, see files of Board.)

REPORT.

The undersigned, having heard the evidence of all parties relative to this application, recommends that the annexed Order be adopted as the Order of the Board.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

Toronto, December 20th, 1924.

PROCEDURE FILE 9643.

In the matter of the application of the Board of Trustees of the Police Village of Ottawa West, for approval of By-law No. 997 of the Township of Nepean, "to regulate the construction of new buildings, extensions and alterations in the Police Village of Ottawa West."

Nov. 27th. Application and material filed.

Dec. 26th. Hearing, pursuant to appointment, 10 to 10.30 a.m., Court House, Ottawa.

Dec. 29th. Report of Mr. Commissioner Ellis (under section 9, Chap. 186, R.S.O.) filed and adopted

REPORT OF MR. COMMISSIONER ELLIS.

I heard this application at the Court House, in the City of Ottawa, on the 26th December instant. Mr. V. S. McClenaghan appeared for the Applicants, no one appearing in opposition. Proofs of publication, posting and service of the Appointment for Hearing were given.

The By-law appears to be in proper form and one which can be passed under the provisions of section 399a of the Municipal Act, except that I think the words "of any sort, whether of the classes aforesaid or otherwise," in the first and second lines of clause 5, should be struck out.

Upon the amending By-law being passed providing for this, and filed with the Board, I recommend that the application be approved.

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, December 29th, 1924.

Approved.

(Sgd.) D. W. MCINTYRE,
Chairman.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE 9645.

Application by the City of Toronto, under section 399a of "The Consolidated Municipal Act, 1922," for approval of its By-law No. 10210, Restricted Area on Turnberry Avenue.

Nov. 28th. Application and material filed.

Dec. 15th. Hearing, pursuant to appointment, 10.30 a.m.; 11 to 11.50 a.m. Application granted. City Solicitor to draft Order.

LIST OF APPLICATIONS IN RESPECT OF PROVINCIAL RAILWAYS DURING 1924.

	Procedure File
Badger, Mark—Approval plan of crossing of Toronto & York Radial Railway (Metropolitan Division), Yonge Street, Town of Aurora	9498
Dominion Power & Transmission Co. of Hamilton—Opening of Melvin, Britannia, Roxborough and Dunsmore Avenues across transmission line of	9259
Guelph Radial Railway. See "Hydro-Electric Power Commission of Ontario."	
Hamilton, Grimsby & Beamsville Electric Railway—Approval highway crossing, Township North Grimsby	9482
Hydro-Electric Power Commission of Ontario:—	
Guelph Radial Railway—Approval revisions of	8962
Sandwich, Windsor & Amherstburg Railway—	
Approval plan of industrial spur, Lot 36, Con. 1, Township Sandwich West, County Essex	9133
Approval plan of industrial spur, Lot 35, Con. 1, Township Sandwich West, County Essex	9134
Approval plan of industrial spur, Lot 6, Con. 1, Township Anderdon, County Essex (at Sandwich Street)	9237
Approval plan of proposed crossing of Tecumseh Division at Lakeview Avenue, Town of Riverside	9306
Approval plan of proposed crossing of Tecumseh Division at Fairview Avenue, Town of Riverside	9307
Approval plan of double tracking of Wyandotte Street (Walkerville), from Kildare Road to Walker Road	9569
Toronto & York Radial Railway—	
Approval crossing, in Town of Mimico, at Queen's Avenue, Hillside Avenue and Allan Avenue (Mimico Division) (P. 472)	9312
Approval crossing in Town of Aurora, Yonge Street (Metropolitan Division.) (Application by Mark Badger)	9498
Approval siding and team track (Metropolitan Division), crossing Park Avenue, Newmarket	9504
E. T. Stephens Co., Ltd.—Application for crossing (Metropolitan Division) on Yonge Street, at Morgan Avenue and Powell Street	9592
International Railway Co. (Niagara Falls Park & River Division)—Approval Irvin C. Hartzner as examiner of motormen	9228
International Railway Co. (Niagara Falls Park & River Division)—Approval of Passenger Tariff O.R.B. No. 2	9257
Kitchener Light Commissioners—Approval plan of Street Railway track extension at Kitchener Junction	9520
Mimico, Town of—Approval crossing of Hydro-Electric Railway (Toronto & York Radial Railway (Mimico Division), at Queen's Avenue, Hillside Avenue and Allan Avenue (P. 472)	9312
North Grimsby, Township of—Approval crossing over Hamilton, Grimsby & Beamsville Electric Railway at Central Avenue	9482
Riverside, Town of—Approval highway crossing at Lakeview Avenue, over Hydro-Electric Railway	9306
Riverside, Town of—Approval highway crossing at Fairview Avenue over Hydro-Electric Railway	9307
Sandwich, Windsor & Amherstburg Railway—See "Hydro-Electric Power Commission of Ontario."	
Saltfleet, Township of—Opening of Melvin, Britannia, Roxborough and Dunsmore Avenue, across line of Dominion Power & Transmission Co. of Hamilton	9259
Stephens, E. T., Co., Ltd.—Application for crossings of Hydro-Electric Railway (Toronto & York Radial Railway, Metropolitan Division), Yonge Street, at Morgan Avenue and Powell Street	9592
Temiskaming & Northern Ontario Railway Commission—Compensation for lands taken for siding to Fesserton Lumber Co. Mills, Timmins. (See P.F.F. 9323-4-5.)	
Temiskaming & Northern Ontario Railway Commission—Approval siding in Town of Timmins (Fesserton Lumber Co.) (P. 488)	9338
Temiskaming & Northern Ontario Railway Commission—Regulations governing baggage car traffic	9472
Toronto & York Radial Railway. See "Hydro-Electric Power Commission of Ontario."	
Toronto, City of—Approval bridge and approach to Wellington Street destructor (P. 461)	8943

	Procedure File.
Toronto Transportation Commission:—	
Approval plan of—	
Tail track, Bloor Street and Lansdowne Avenue	8931
Weston Road loop, at Northlands Avenue	8969
Rehabilitation and extension of tracks on Parliament Street, from Winchester north to Howard Street (P. 462)	9085
Proposed loop at Sherbourne and Rachael Streets (P. 464)	9160
Track extensions, Weston Road loop at Townsley Avenue (P. 470)	9287
New track construction on Davenport Road, from Hillcrest Yard entrance to Dovercourt Road (P. 471)	9309
Proposed track on Defoe, Crawford and King Streets (P. 476)	9503
Proposed loop at Oakwood and St. Clair Avenues (P. 479)	9564
Extension of tracks on St. Clair Avenue East, from Yonge Street to Mount Pleasant Road (P. 480)	9582
New type of One-Man car with rear exit door (P. 481)	9588
Approval of operation of various types of One-Man cars approved by the Board on Street Railway lines in Township of York	9596
Approval plan of proposed "Runnymede loop" (P. 486)	9638
York, Township of—Approval plan, etc., of Street Railway system (P. 475)	9492

APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 295 OF "THE CONSOLIDATED MUNICIPAL ACT, 1922."

(Abbreviation "I.C." means Irregularities Cured.) (Abbreviation "I." means Irregularities not Cured.)

Municipality	No. of By-law	Purpose.	Amount.	Procedure File.
Alexandria, Town of	391	Balance due on Mortgage of Schell Foundary Co	$6,462 27 (I.)	9008
Brockville, Town of	B. 1385	Local Improvements—Pavements	43,740 99	8887
Brockville, Town of	B. 1386	Local Improvements—Pavements	64,464 80	8888
Bobcaygeon, Village of	343	Local Improvements—Paved Roadway	34,500 00	9023
Blyth, Village of	9 (1923)	Hydro-Electric System	18,000 00 (I.C.)	9136
Brampton, Town of	785	To guarantee debentures of Gummed Papers, Ltd	20,000.00	9256
Blenheim, Town of	617	Continuation School Purposes	29,000 00	9316
Brampton, Town of	795	Grant to Peel Memorial Hospital Association	5,000 00 (I.C.)	9350
Barton, Township of	1427	Public School Purposes in S.S. No. 3	15,000 00	9389
Belleville, City of	2584	Parks Purposes	50,000 00	9390
Bayham, Township of	871	Public School in S.S. No. 2	35,000 00	9402
Belleville, City of	2590 (Con.)	Local Improvements—Pavements	146,663 62 (I.C.)	9493
" "	2627 (Con.)	Local Improvements—Sidewalks	16,603 11 (I.C.)	9499
Beverly, Township of	716	Public School Purposes—Union S.S. No. 4 Beverly and No. 14 Ancaster	28,000 00	9516
Brampton, Town of	806	Local Improvements—Sewers	4,260 72 (I.C.)	9604
" "	807	Local Improvements—Sidewalks	6,190 06 (I.C.)	9605
Campbellford, Town of	764	Completion of High School	28,800 00	8993
Cornwall, Town of	16 (1924)	Local Improvements—Sewers, etc	69,572 25 (I.C.)	9269
Chippawa, Village of	443	Waterworks System	76,978 00 (I.C.)	9406
Calvert, Township of	69	Town Hall and Fire Station	10,000 00 (I.C.)	9485
Cornwall, Township of	1065	Sewers, etc	7,881 51 (I.C.)	9487
Campbellford, Town of	795	High School Purposes	15,000 00	9534
Creemore, Village of	374	Waterworks Extensions	10,600 00	9577
Calvin, Township of	110 (amended)	Public School Purposes in S.S. No. 1	3,100 00 (I.C.)	9651
Crystal Beach, Village of	72	Waterworks System	67,000 00	9691
Cornwall, Town of	17 (1924)	Waterworks Extensions	25,000 00 (I.C.)	9695
Dunnville, Town of	11 (1923)	Extension to Municipal Electric System	10,000 00	9107
Dungannon, Township of	50	Telephone System	11,000 00	9182
Dunnville, Town of	3 (1924)	Local Improvements—Pavements	27,430 28	9200
Dryden, Town of	170	Waterworks System	30,000 00 (I.C.)	9331
Elora, Town of	687	Local Improvements—Permanent Pavements	50,000 00 (I.C.)	8957
Etobicoke, Township of	1543 (Con.)	Local Improvements—Water Mains	17,410 00 (I.)	9252
" "	1544	Local Improvements—Water Mains	74,290 00 (I.C.)	9253
" "	1530	Local Improvements—Water Mains	4,285 00 (I.C.)	9252
" "	1535	Local Improvements—Water Mains	325 00 (I.C.)	9252
" "	1542	Water System and Water Main in Area No. 4	41,000 00 (I.C.)	9252-A
Eastview, Town of	538 (Con.)	Local Improvements—Water Mains, etc	43,210 00 (I.C.)	9483
Eastnor, Township of	73	Drainage Work	7,473 37 (I.C.)	9532

APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 295 OF "THE CONSOLIDATED MUNICIPAL ACT, 1922."—Continued

(Abbreviation "I.C." means Irregularities Cured.) (Abbreviation "I." means Irregularities not Cured.)

Municipality.	No. of By-law.	Purpose.	Amount.	Procedure File.
Etobicoke, Township of	1449	Local Improvements—Water Mains in Area No. 1	74,300 00 (I.C.)	9555
Emo, Township of	301	Local Improvements—Sewer	3,000 00	9653
Fort Erie, Village of	533	Public School Purposes	7,000 00 (I.C.)	9064
Ford City, Town of	511 (Con.)	Local Improvements	50,079 14 (I.C.)	9114
" " "	522	Local Improvements—Extension Central Avenue	17,879 98	9170
" " "	527	Local Improvements—Sewers	77,045 09	9171
" " "	533	Local Improvements—Storm Water Outlet	152,608 43	9172
" " "	518	Public School	230,000 00	9224
Fort William, City of	2366	Public School Purposes	7,500 00	9327
" " "	2364	Park Purposes	7,500 00 (I.C.)	9445
" " "	2384	Alterations to Isolation Hospital	4,500 00 (I.C.)	9570
" " "	2385	Collegiate Institute, etc	200,000 00	9607
Fort Erie, Village of	560	Local Improvement—Trunk Sewer	30,000 00 (I.C.)	9613
Ford City, Town of	617	Local Improvement—Sanitary Outlet Sewer	39,584 36 (I.C.)	9661
Galt, City of	2055	Storm Sewer	27,430 31 (I.C.)	8952
" "	2056	Storm Sewer	10,084 26 (I.C.)	8953
Grimsby, Town of	570	To guarantee bonds of Magill Hats, Ltd	25,000 00 (I.)	9199
Goderich, Town of	36 (1923)	Electric Light Extensions	20,000 00 (I.C.)	9240
Galt, City of	2099	Waterworks Extensions, etc	30,470 67 (I.C.)	9243
Guelph, City of	1717	Local Improvements—Sewers	106,757 00	9351
" "	1721	Local Improvements—Pavements, etc	67,240 00	9352
" "	1722	Local Improvements—Pavements, etc	22,862 00	9353
Goderich, Town of	8 (1924)	Water Purification Plant, etc	60,000 00	9440
" "	10 (1924)	Collegiate Institute Purposes	58,000 00	9441
" "	15 (1924)	Floating Debt	25,000 00	9442
Grimsby, Town of	585	Local Improvements—Pavement	46,000 00	9523
Gore Bay, Town of	9568	Public School Purposes	25,000 00	9568
Haileybury, Town of	601	Motor Fire Engine and Truck	5,000 00	8902
Hespeler, Town of	474	Waterworks Extensions	13,000 00 (I.C.)	8903
Hensall, Village of	12 (1923)	Local Improvements—Road Pavement	36,146 00 (I.C.)	8994
Haileybury, Town of	603	Local Improvements—Sidewalks	16,217 55 (I.C.)	9004
" "	605	Local Improvements—Sewers	1,724 26 (I.C.)	9005
" "	604	Water Main Extension	2,352 61	9014
Huntsville, Town of	426	Public School Purposes	27,000 00 (I.C.)	9230
" "	428	Public School Purposes	8,500 00 (I.C.)	9231
Humberstone, Village of	133	Hydro-Electric Power Plant	28,000 00 (I.C.)	9537
Hastings, Village of	681	To guarantee bonds of Hastings Metal Products, Ltd., etc.	15,000 00 (I.)	9547
Hanover, Town of	389	Local Improvements—Sidewalks	12,326 69	9574
Kitchener, City of	1757	Technical and High School Purposes	100,000 00	9121

Kapuskasing, Town of	50		Local Improvements—Sewers, etc	80,000 00	9145
Kitchener, City of	1775		Parks Fund Debentures	45,000 00 (I.C.)	9396
Kenora, Town of	849		Plank Sidewalk	470 76 (I.C.)	9433
" "	850		Granolithic Sidewalks	5,972 62 (I.C.)	9434
" "	825		Consolidated Debt	11,687 76 (I.C.)	9449
" "	851		Bridges, etc	5,000 00 (I.)	9450
" "	852		Street Improvements, etc	20,000 00 (I.C.)	9451
" "	859		Consolidated Debt Debentures	12,177 39 (I.C.)	9502
Leaside, Town of	137		Sewerage Works Extensions	6,500 00 (I.C.)	8897
" "	138		Waterworks Extensions	3,750 00 (I.C.)	8899
Listowel, Town of	877		Waterworks Extensions	8,000 00	9484
Leaside, Town of	144		Sanitary and Storm Sewers	20,000 00 (I.C.)	9519
Mitchell, Town of	104 (1923)		High School Purposes	50,000 00	9116
Mount Forest, Town of	764		To guarantee bonds of Mount Forest Carriage Co., Ltd.	20,000 00 (I.C.)	9204
Mitchell, Town of	110		To guarantee bonds of A. Burritt & Co., Ltd	75,000 00 (I.C.)	9232
Merrickville, Village of	403		Public School Purposes	25,000 00 (I.)	9410
Midland, Town of	1134		Local Improvements—Sewers	18,000 00	9649
Nelson, Township of	749 (Con.)		Local Improvements	19,930 90 (I.)	8981
North York, Township of	67		Electric Power Distribution Plant in Area No. 2	18,000 00 (I.C.)	9020
Newmarket, Town of	547		Local Improvements—Sewers	29,900 00 (I.C.)	9086
" "	546		Local Improvements—Pavements	37,594 69 (I.C.)	9087
North York, Township of	99		Township Hall	35,000 00 (I.C.)	9110
" " "	109		Public School, S.S. No. 20	10,000 00 (I.C.)	9111
Nelson, Township of	762 (Con.)		Local Improvements	17,333 59 (I.C.)	9119
North Bay, Town of	701		Sanitary Sewer	8,000 00 (I.C.)	9358
North Dorchester, Township of	627		Continuation School Purposes	20,000 00 (I.C.)	9427
Neebing, Municipality of	442		Public School in Township Crooks	4,000 00 (I.C.)	9474
Niagara Falls, City of	1263		Street Cleaner	8,700 00 (I.C.)	9500
Nassagaweya, Township of	9 (1923)		Hydro-Electric Power for Police Village of Campbellville	5,600 00	9579
North Bay, Town of	727		Local Improvements—Sidewalks	16,700 00 (I.C.)	9664
" " "	735		Local Improvements—Sewer	15,000 00 (I.C.)	9704
Omemee, Village of	508		Local Improvements—Roadway	66,900 30	9013
Oakville, Town of	706		Water Main Extension	3,000 00 (I.C.)	9098
Oshawa, City of	1670		Park Improvements	25,000 00 (I.C.)	9127
Orillia, Town of	856		Extension to Power Transmission Lines	36,000 00 (I.C.)	9308-A
Ottawa, City of	5768		Additional lands, etc., for Royal Ottawa Sanitarium	50,000 00 (I.C.)	9517
Percy, Township of	787		Hydro-Electric System in Police Village of Wark-worth	14,000 00	8951
Port Colborne, Town of	16 (1924)		Waterworks Extensions	78,000 00 (I.C.)	9084
Port Dover, Village of	228		Hydro-Electric Extensions	8,000 00 (I.C.)	9124
Port Dalhousie, Village of	491		Local Improvements—Sewers	36,884 38 (I.C.)	9132
Pembroke, Town of	1144		Public School Purposes—East Ward	8,000 00	9283
" "	1087		Bridge at Mary St	75,000 00 (I.C.)	9321
Peterborough, City of	2537		Dominion Dustless Sweeper	14,250 00 (I.C.)	9444
Port Hope, Town of	1301		Local Improvements—Sewers	22,645 51 (I.C.)	9563
Picton, Town of	839 (amended)		Public School Purposes	5,000 00 (I.C.)	9608

APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 295 OF "THE CONSOLIDATED MUNICIPAL ACT, 1922."—Continued

(Abbreviation "I.C." means Irregularities Cured.) (Abbreviation "I." means Irregularities not Cured.)

Municipality.	No. of By-law.	Purpose.	Amount.	Procedure File.
Port Colborne, Town of	34 (1924)	Public School Purposes	102,000 00 (I.C.)	9619
Renfrew, Town of	1098	Fire Hydrants	2,500 00 (I.C.)	9011
" "	1108	Local Improvements—Roadway	9,253 57	9012
" "	1099	Floating Debt	10,000 00 (I.)	9031
Riverside, Town of	139 L	Local Improvements—Sewers, etc.	73,150 00 (I.C.)	9468
" "	140 L	Local Improvement—Intercepting Sewer	26,320 00 (I.C.)	9469
Renfrew, Town of	1124	Collegiate and Vocational School Purposes	10,000 00	9475
Richmond, Village of	285	Purposes of Union Public School Board	25,000 00 (I.C.)	9668
St. Catharines, City of	3444	City's share of cost of Provincial Highway	78,000 00 (I.C.)	8937
Sandwich, Town of	1217	Equipment for General Byng School	27,000 00 (I.C.)	8944
Strathroy, Town of	1074	Addition to General Hospital	10,000 00	8992
Sandwich, Town of	1235 (Con.)	Local Improvements	62,227 73	9015
" "	1256 (Con.)	Local Improvements	56,102 65	9055
St. Catharines, City of	3517	Local Improvements—Pavements	17,906 71 (I.C.)	9062
" "	2519	Local Improvements—Pavements	14,484 19 (I.C.)	9063
Sandwich, Town of	1263 (Con.)	Local Improvements—Pavements	53,165 18	9065
Simcoe, Town of	778	Local Improvements—Sewers	7,763 13 (I.C.)	9141
" "	779	Local Improvements—Pavements	67,680 00 (I.C.)	9142
" "	780 (amended)	Waterworks Extensions	10,000 00 (I.C.)	9143
Smiths Falls, Town of	1612 (Con.)	Local Improvements—Sewers, etc.	13,173 23 (I.C.)	9255
Sandwich, Town of	1215	Hydro-Electric Plant	85,573 02	9279
" "	1270	Local Improvements—Sewers	11,953 20	9280
Schreiber, Township of	131	Public School Purposes	40,000 00 (I.C.)	9382
Sandwich, Town of	1196	Diverting Grand Coulie	5,158 00 (I.)	9439
Stratford, City of	2894	Electric Light Extension	50,000 00	9458
Scarborough, Township of	1282	Branch Water Mains	217,758 07 (I.C.)	9505
Sandwich West, Township of	606 (Con.)	Local Improvements—Water Mains	51,844 22 (I.C.)	9544
" " "	607	Local Improvements—Water Main	21,194 85 (I.C.)	9556
Sandwich, Town of	1321 (Con.)	Local Improvements—Sewers	79,725 03 (I.C.)	9603
St. Catharines, City of	3516	Local Improvements—Sewers	50,298 74	9626
Scarborough, Township of	1283	Hydro-Electric Purposes in Area No. 1	75,000 00	9644
Smiths Falls, Town of	1657 (Con.)	Local Improvements—Pavements	104,525 80 (I.C.)	9679
Teeswater, Village of	3 (1924)	Local Improvements—Pavements	15,000 00 (I.)	9152
Toronto, Township of	1006	Public School Purposes, S.S. No. 21 East	10,000 00 (I.C.)	9254
Tisdale, Township of	272	Public School Purposes, S.S. No. 1	12,000 00	9435
" "	273	Public School Purposes, S.S. No. 1	12,000 00	9436
" "	274	Public School Purposes, S.S. No. 2	65,000 00	9437
" "	275	Public School Purposes, S.S. No. 2	6,500 00 (I.C.)	9438
Teck, Township of	158	Sewerage System	40,000 00 (I.C.)	9471

Thessalon, Town of	9 (1924)	Deficit *re* Waterworks Extensions	5,550 00	(I.C.)	9512
" "	19 (1924)	High School Purposes	10,000 00		9634
Vaughan, Township of	1111	Public School Purposes, Union S.S. No. 1	7,000 00	(I.C.)	9300
Windsor, City of	2866 (amended)	Park Purposes	100,000 00	(I.C.)	8995
" "	3062 (Con.)	Local Improvements	18,385 88	(I.)	8997
" "	3169 (Con.)	Local Improvements	454,838 56	(I.C.)	9089
" "	3210 (Con.)	Local Improvements	15,598 26		9094
" "	3113	Local Improvements	60,901 34	(I.C.)	9109
" "	3199 (Con.)	Local Improvements	31,005 99	(I.C.)	9139
Weston, Town of	222	Municipal Electric System	25,000 00		9298
Waterloo, Town of	795 (Con.)	Local Improvements—Waterworks Extension, etc.	14,488 56	(I.C.)	9326
Weston, Town of	245	Waterworks Improvements	10,500 00		9355
Walkerville, Town of	996 (Con.)	Local Improvements	273,675 26	(I.C.)	9411
" "	1004	Local Improvements, Waterworks Construction	4,710 73	(I.)	9412
Whitby, Town of	1191	Waterworks Extensions	72,000 00	(I.C.)	9587
York, Township of	7376	Hydro-Electric Power Distribution System	200,000 00	(I.C.)	8972
York, County of	1400	High School Purposes, Town of Mimico	100,000 00	(I.C.)	9123
York, Township of	7545	Local Improvements—Pavements	84,305 21	(I.C.)	9125
" "	7535	Local Improvements—Sidewalks, etc.	167,853 57	(I.C.)	9193
" "	7534	Local Improvements—Water Mains, Section "A"	187,271 44	(I.C.)	9245
" "	7538	Local Improvements—Water Mains, Section "B"	24,169 82	(I.C.)	246
" "	7537	Local Improvements—Water Mains	6,567 16	(I.C.)	9388
			$7,341,426 33		

LIST OF BY-LAWS APPROVED BY THE BOARD UNDER SUBSECTION (3) OF SECTION 400 OF "THE CONSOLIDATED MUNICIPAL ACT, 1922."

Municipality	No. of By-law	Purpose	Amount	Procedure File
Brantford, City of	1868	Hydro-Electric Extensions	$50,000 00	9430
Barton, Township of	1448	Hydro-Electric Extensions	50,000 00	9616
Cornwall, Town of	17 (1924)	Waterworks Extensions	25,000 00	9248
Creemore, Village of	374	Waterworks Extensions	10,600 00	9541
Ford City, Town of	542	Hydro-Electric Extensions	25,000 00	9183
Galt, City of	2055	Storm Sewers	27,430 31	8959
" "	2056	Storm Sewers	10,084 26	8960
Grimsby, Town of	574	Waterworks Extensions	5,000 00	9299
" "	583	Waterworks Extensions	3,000 00	9518
Haileybury, Town of	604	Extension of Water Main	2,352 61	9045
Hamilton, City of	2969	Waterworks Extensions	123,180 00	9203
" "	3003	Hydro-Electric Extensions	650,000 00	9238
Kitchener, City of	....	Electric Light Extensions	132,000 00	9288
Leaside, Town of	137	Sewerage Works Extensions	6,500 00	8896
" "	138	Waterworks Extensions	3,750 00	8898
London, City of	7300	Hydro-Electric Extensions	210,000 00	9147
" "	7298	Waterworks Extensions	105,000 00	9148
" "	7299	Waterworks Extensions	50,000 00	9149
Listowel, Town of	877	Waterworks Extensions	8,000 00	9206
Mimico, Town of	486	Hydro-Electric Extensions	46,000 00	8919
Niagara, Town of	859	Hydro-Electric Extensions	6,000 00	8938
Niagara Falls, City of	1231	Hydro-Electric Extensions	50,000 00	8950
Oshawa, Town of	1668	Waterworks Extensions	50,000 00	9060
Orillia, Town of	856	Extensions to Electric Power Transmission Lines	36,000 00	9308
Orangeville, Town of	1418	Waterworks Extensions	13,000 00	9703
Port Dover, Village of	228	Hydro-Electric Extensions	8,000 00	8920
Point Edward, Village of	717	Hydro-Electric Extensions	10,000 00	9150
Peterborough, City of	2515	Waterworks Extensions	25,460 00	9164
" "	2516	Waterworks Extensions	12,000 00	9165
Port Colborne, Town of	33 (1924)	Hydro-Electric Extensions	35,000 00	9659
Riverside, Town of	137-H	Hydro-Electric Extensions	15,000 00	9525
Simcoe, Town of	780 (amended)	Waterworks Extensions	10,000 00	9047
Stratford, City of	2894	Extensions to Hydro-Electric System	50,000 00	9265
Scarborough, Township of	1283	Extensions to Electric Distribution System	75,000 00	9456
Sarnia, City of	1511	Extensions to Municipal Electric System	40,000 00	9470
Stouffville, Village of	529	Extension and Completion of Hydro-Electric System	2,800 00	9572
Simcoe, Town of	792	Waterworks Extensions	6,600 00	9669
Toronto, City of	9099	Waterworks Extensions	182,000 00	9099
" "	9963	Revenue Water Mains	72,000 00	9162
Thessalon, Town of	9 (1924)	Waterworks Extensions	5,500 00	9173
" "	10 (1924)	Electric Light Extensions	2,450 00	9174

Toronto, City of	10024		Waterworks Extensions	524,000 00	9196
Tottenham, Village of	325		Extensions to Hydro-Electric System	2,500 00	9317
Tecumseh, Town of	113		Extensions, etc., to Waterworks System	16,775 00	9366
Toronto, City of	10105		Extensions to Electric Distribution System	3,088,000 00	9400
" "	10177		Extensions to Electric Distribution System	3,119,000 00	9598
Weston, Town of	222		Municipal Electrical System	25,000 00	9297
Whitby, Town of	1191		Waterworks Extensions	72,000 00	9315
Wingham, Town of	....		Waterworks Extensions	12,000 00	9370
Welland, City of	363		Hydro-Electric Extensions	75,000 00	9376
Windsor, City of	3290		Hydro-Electric Extensions	250,000 00	9488
Wingham, Town of	947	(1924)	Waterworks Extensions	6,000 00	9699
				$9,439,982 18	

PLANS OF LAND SUBDIVISIONS.

Approved by the Board under "The Planning and Development Act, "The Land Titles Amendment Act, 1917," and "The Registry Act."

Owner	Description of Property	Procedure File
Appleton, Imogen	Part Plan 172 and part Lot 17, Con. 8, Tp. Whitchurch, Co. York	9163
Aldborough, E. J., Estate of	Part Lot 9, Con. 16, Tp. Sunnidale, Co. Simcoe.	9455
Allan, Robt. Jno	Part Lot 10, Con. 6, Tp. Seymour, Town of Campbellford	9665
Brantford, City of	Approval plan of part of its urban zone. (P. 455)	8768
Brock, Fred. A	Part Lot 34, Con. 3, Tp. Nottawasaga, Co. Simcoe	8915
Byrnell, R	Parts Lots 23, Con. 8 and 9, and part allowance for road between same, Tp. Fenelon, Co. Victoria	8916
Boettger, Ezra	East half of Lot 7, broken front concession, Tp. Saltfleet, Co. Wentworth	9314
Bricker, Wilton	Part Lot 1, German Co. Tract, City of Kitchener Co. Waterloo	9318
Burdick, Elizabeth, *et al*	Part Farm Lot 128, Town of Riverside, Co. Essex	9320
Byrnes & Stapleton, *et al*	Part Lot 7 and part Lot 8, Con. 16, Tp. Sunnidale, Co. Simcoe	9367
Bar Point Land Co., Ltd	Part Caldwell grant, Tp. Malden, Co. Essex	9381
Byrnes & Stapleton	Part Lot 7 and part Lot 8, Con. 16, Tp. Sunnidale, Co. Simcoe	9549
Battle, Jas., *et al*	Lot 12 and parts Lots 10, 11 and 13 (Capner Plan), Reg. plan No. 48, City of St. Catharines	9667
Coulter, Clifford	Part Tp. Lot 19, Con. 7, Tp. Reach, Co. Ontario.	8932
Crescent Lorraine Silver Mining Co., Ltd	Surface rights only of part Mining Claim H.R. 81, Tp. South Lorraine, Dist. Timiskaming.	9082
Claus, Frederick W	*See* "Fox, Henry J., Jr."	
Colquhoun, F. Bertha	Part Lots 5 and 6, Con. 1, Tp. Cornwall, Co. Stormont	9205
Campbell, Hugh	Part Lots 1 and 2 of the Welland Canal Loan Co. plan, Reg. plan 43 for Village (now Town) of Merritton, Co. Lincoln	9276
Crystal Park Co., Ltd	Lots 10 and 11, Plan 80, Tp. Bertie, Co. Welland.	9291
Crescent Lorraine Silver Mining Co., Ltd	Surface rights only of part Mining Claim H.R. 81, Tp. South Lorraine, Dist. Timiskaming.	9494
Dando, Geo., Estate of	Part Lots C and B, Pollock Place; Lots 4, 5 and 6, etc., and part subdivision Lot 1, Con. 12, east of the Grand River, City of Galt, Co. Waterloo	9120
Davis, Ace. K., *et al*	Part Farm Lot 65 (McNiff's Survey), Town of Sandwich	9207
Darby, N	Part Lot 5, Con. 9, Tp. Kendall, Dist. Cochrane.	9528
Denike, Elizabeth	Part Lot 10, Con. 6, Tp. Seymour, Reg. plan Town of Campbellford (part Block 36)	9666
Essex Real Estate Co., Ltd	Part Farm Lots 91 and 92, etc., Tp. Sandwich East, Co. Essex	9176
Ecclestone, Geo	Part Lot 1 in the Lake Road West Concession, Tp. Stephen, Co. Huron	9529
Ecclestone, Ida May	*See* "Strathmeyer, Jane."	
Fox, Henry J., *et al*	Part Township Lot 23, B.F. Concession (Lake Erie), Tp. Bertie, Co. Welland	9155
Graham, Geo. H., *et al*	Block "B"; parts Block "C" and Lakeview Park, Reg. Plan 152, Tp. Fenelon, Co. Victoria	9357
Gilbert, Jas. R	Part Location K 383, Mine Centre Station, Rainy River District	9408
Giroux, Peter A	Part Lot 15, Con. 1, Tp. Pembroke, part of Village of Churchill (now in Town of Pembroke); also part Lot 16, Con. 1, Town of Pembroke, Tp. Pembroke, Co. Renfrew	9559

Owner	Description of Property	Procedure File
Gold Centre Mines, Ltd.	Part Mining Claim 14058; part northwest one-quarter of south half Lot 7, Con. 2, Tp. Tisdale, Dist. Cochrane	9652
Ham, Leslie Gordon	Part Lot 26, B.F. Concession Lake Erie, Tp. Bertie, Co. Welland	9161
Helmer, Wm. L.	Southern part Lot 12 in front of Con. "A," Tp. Charlotteville, Co. Norfolk	9281
Henderson, John, *et al*	Part Lots 33, 34, 35 and 36, Lake Range, Tp. Saugeen, Co. Bruce	9531
Hancock, F. E.	Gravel pit location J. C. 72, on Lake Lulu and west Ostersund section house, Tp. Pellatt, Dist. Kenora	9539
Hancock, F. E.	Most southerly point of land of Lot 10, Con. 3, projecting into Lulu Lake, Tp. Pellatt, Dist. Kenora	9540
Henderson, Jno., *et al*	*See* "Shipley, Lionel."	
Harris, Matthew, Estate of	Part Lot "A" (Plan 500), on southerly side of Denison Road; also part Lot "U" on north-easterly side of St. John's Road, Town of Weston, Co. York	9621
Jackson, Samuel H.	Part Lot 8, Con. 1, Tp. Whitby East, now in City of Oshawa	9420
Kuntz Brewery, Ltd.	Lot 17, German Co. Tract, City of Kitchener	8970
Kipp, Dr. A. W., *et al*	Part Farm Lot 101, Con. 2, Tp. Sandwich East, Co. Essex	9102
Kitchener, City of	Approval plan and zone By-law 1791, amended by By-law 1802 (P. 473)	9385
Luft, Julius	Lot 548, Grange's Survey, City of Kitchener	8935
Lassaline, Denis J.	Part Farm Lot 111, lying south of Tecumseh Road, according to McNiff's Survey, Tp. Sandwich East, Co. Essex	8999
Lion's Head, Village of	Approval general plan of	9175
Lefebrem, J. F., *et al*	Lots 51, 52, 65 and 66, Plan M. 3, Timiskaming, Tp. Calvert, Dist. Timiskaming	9311
Lomar, Napoleon, *et al*	Part Lots 108 and 109 (McNiff's Survey), Con. 2, Tp. Sandwich East, Co. Essex	9313
Laskey-Komar Realty Co., Ltd.	Lot 12, Range 4, Tp. Sarnia, Co. Lambton, ("Alloy Steel Park") (P. 477)	8692
Lessard, Arthur	Part southeast quarter of north half of Lot 9, Con. 6, Tp. Taylor, Dist. Cochrane	9614
Miller, Frederick H. and Edwin T.	Part Lot 18, Reg. Plan 494, Co. York, Tp. York.	8901
Morand, Moise, *et al*	Part north half Farm Lot 14, Con. 5, Tp. Sandwich South, Co. Essex	8933
Murphy, Michael	Part Block "A," Plan M. 134 York, Town of Mimico	8955
Mason, Orrie H.	Part Farm Lot 128, Con. 1, Tp. Sandwich East, Town of Riverside	9006
Miles, R. H., *et al*	Part Lot 14, Con. 2, Tp. East Whitby, Co. Ontario	9611
Matheson, W.	Part south half Lot 5, Con. 3, Tp. McKim (Town of Sudbury), Dist. of Sudbury	9681
McKnight, J. H.	Amendment to Plans D. 1419 and 238, York, and part Tp. Lot 35, Con. 3, from the bay, Tp. York, Toronto	8934
McMichael, A. J. W.	Part Lots 2 and 3, Reg. Plan 95, Tp. York, Co. York	9186
McAllister, Philip	Part Lot 34, Con. 3, Tp. Nottawasaga, Co. Simcoe	9290
McKenzie, Wm. H.	Part Lot 16, Con. 1, east of Yonge St., Tp. North York, Co. York	9344
McRae, C. J.	Part Lot 1, Con. 15, Tp. Sunnidale, Co. Simcoe.	9673
Nicholson, Robt. Jno.	Northerly part Lot 9, Front Con., Tp. Sarnia, Co. Lambton	9022
Noble, Wm. A.	Part Lots 4 and 5, Con. 6, Tp. Markham, Co. York	9117
Nelson, Edward J.	Part Lots 4 and 5, Plan M. 3, Timiskaming, Tp. Calvert, Dist. Cochrane	9024
Nadeau, Geo., *et al*	Lots 63 and 64, Plan M. 3, Timiskaming, Tp. Calvert, Dist. Cochrane	9310
Pugsley, Jno. Morton	Part Lots 3 and 4, Con. 9, Tp. North Gwillimbury, Co. York	8904

Owner	Description of Property	Procedure File
Poucher, Frank Beverley	Part Lots 14 to 19 (incl.) and 24, Plan 2472, and part Lot 22, Con. 1, west of Yonge St., Tp. North York, Co. York	8942
Parent, Angelique	Front part of Farm Lot 145, Town of Riverside, Co. Essex	9146
Prideaux, Thos. G.	Part Location H. P. 143, Mine Centre Station, Rainy River District	9407
Reid, Agnes, *et al*	Resubdivision of part Plan 135079, City of Ottawa	8912
Rosenbasch, Otto, *et al*	*See* "Kipp, Dr. A. W."	
Ruppert, Adam	Part west half of Lot 5, Con. 16, Tp. Sunnidale, Co. Simcoe	9285
Railways and Canals, Department of (Dominion)	Part Lot 28, Con. 1, Tp. Humberstone, now in Town of Port Colborne, Co. Welland; also other lands in said town	9620
Sheppard, Thos. R.	Part Lot 2, Con. 9, Tp. North Gwillimbury, Co. York	8905
Street, Jas. Henry	Part Lot 34, Con. 4, Tp. Saltfleet, Co. Wentworth	8954
Smith, John Henry	Part Lot 27, Con. 10, Tp. Strong, Dist. Parry Sound	8973
Sanders, Norman	Part Lot 6, Con. 1, Tp. East Whitby, Co. Ontario	8996
Sedore, Jones and Jerimiah	Part Lot 10, Con. 9, Tp. North Gwillimbury, Co. York	9113
Steele's Corners Land Co. Ltd.	West half of Lot 26, Con. 1, east of Yonge St., Tp. Markham, Co. York	9138
South Sarnia Properties, Ltd.	Part unsurrendered portion, Sarnia Indian Reserve	9371
Sutherland, Samuel Geo.	Part Lot 2, North Shore Con., Tp. Amherst Island	9375
Strathmeyer, Jane, *et al*	Lots 17, 18, 19 and 20, and parts Lot 15 and 16, Plan 149, also part Lot 12, Con. 11, all in Tp. London, Co. Middlesex	9543
Shipley, Lionel, *et al*	Part Lots 33, 34, 35 and 36, Lake Range, Tp. Saugeen, Co. Bruce	9531
Stephen, Township of	Part Lot 1 in Lake Road West Con., Tp. Stephen, Co. Huron	9633
Somerville, R. H.	Part Lot 22, Con. 1, Tp. Kingston, now in City of Kingston; part Lot 3, Plan by A. B. Perry; and part Smith St. sold by city in 1881	9640
Timmins Heights, Ltd.	North west one-quarter of south half of Lot 12, Con. 2, Tp. Tisdale, Dist. Cochrane	8958
Trick, W. J.	Part Lot 9, Con. 7, Tp. Whitby East, Co. Ontario, now in Town of Oshawa	9101
Tillson, E. D., Estate, Ltd.	Part Lot 3, Con. 12 (formerly in Tp. of Durham), Town of Tillsonburg	9144
Urlocker, Chas.	Part Lots 9, 10 and 11, Con. 10, Tp. Grantham, Town of Merritton ("Mount Pleasant Park")	9100
Waterloo, County of	Part Lot 3, G.C.T. and part Park Lot 10, S. Brubacher's Survey, City of Kitchener	9019
Winger, A. Ward	Part Lot 6 in Cross Con., Tp. Bertie, Co. Welland	9083
Waite, Robt.	Lot 3, Plan M. 29, Timiskaming, southeast quarter of south half Lot 1, Con. 3, Tp. Mountjoy, Dist. Cochrane	9527
Weedon, Jno., *et al*	Part surface rights of Mining Claim H.F. 170, Tp. McVittie (Timiskaming)	9622

MISCELLANEOUS MATTERS

ANNEXATIONS.

	Procedure File
Timmins, Town of—Annexation to of part unorganized Township of Mountjoy	8907
Timmins, Town of—Annexation to of part Township Tisdale ("Rochester Townsite")	8976
Sutton, Village of—Annexation to of part Township North Gwillimbury	9093
Windsor, City of—Annexation to of part Township Sandwich East. Petition of Essex Real Estate Co. Ltd.	9112
Windsor, City of—Annexation to of part Township Sandwich West. Petition Ernest Lewis, *et al*	9140
Crystal Beach, Village of—Annexation to of part Township Bertie (P. 463)	9151
Toronto, City of—Annexation to of part Township East York. Petition Chas. E. Kennedy, *et al*	9159
Delhi, Village of—Annexation to of part Township Middleton	9330
Hamilton, City of—Annexation to of part Township Barton. Appeal under Board's Order of March, 18th, 1920. (P.F. 5615)	9426
Morley, Township of—Annexation to of part Township Chapple	9491
Belleville, City of—Annexation to of part Township Thurlow (Almite Products Co., of Canada, Ltd., property)	9489
Toronto, City of—Annexation to of part Township East York. Petition W. H. Flaherty, *et al*	9609

ARBITRATIONS.

	Procedure File
Canadian Building and Land Association, Ltd., *vs.* Ontario Department of Public Highways—Compensation for lands taken (P. 466)	9028
Langdon, Wm. Osgoode, *vs.* Temiskaming & Northern Ontario Railway Commission —Compensation for lands taken for Fesserton Lumber Co., Ltd., siding	9323
Byck, Frank, *vs.* Temiskaming & Northern Ontario Railway Commission—Compensation for lands taken for Fesserton Lumber Co., Ltd., siding	9324
Wallingford, Chas. E., *vs.* Temiskaming & Northern Ontario Railway Commission—Compensation for lands taken for Fesserton Lumber Co., Ltd., siding	9325
York, Township of, *vs.* Township North York—Determination of proportion of Local Improvement charges payable to Township York by Township North York	9562
Kelley, Peter, *vs.* Toronto and Hamilton Highway Commission—Compensation for lands taken in Town of Oakville	9593
Ojibway, Town of, *vs.* Essex Border Utilities Commission, *et al.*—Appeal *re* apportionment of cost of construction of a Metropolitan General Hospital	9610
Gonder, Cromwell, *vs.* Ontario Department of Public Highways—Compensation for lands taken (P. 487)	9676
Stokes, Henry, *vs.* County of Lambton—Compensation for lands taken	9678
Hooks, Henry, *vs.* Toronto and Hamilton Highway Commission—Claim for compensation for damage to property in Oakville	9698

ASSESSMENT APPEALS.

		Procedure File
Hon. Chas. Hyman, *vs.* City of London	$42,570 00	8893
Wm. F. D. Jarvis, *vs.* City of London	43,444 61	8894
Ottawa, City of, *vs.* Dorothy Fulford Hardy	100,000 00	8895
Kingsmills, Ltd., *vs.* City of London	66,350 00	8917
Hamilton, City of, *vs.* Cyrus A. Birge	60,000 00	8918
Smallman & Ingram, *vs.* City of London	157,250 00	8941
Ottawa, City of, *vs.* Wm. Southam & Sons, Ltd.	255,771 00	8989
Sunnyside Pavilion, Ltd., *vs.* City of Toronto	125,096 00	9030
Canadian National Railways, *vs.* City of Ottawa (Chateau Laurier)	1,239,375 00	9032
North York, Township of, *vs.* International Mausoleum Co., and The Forest Lawn Cemetery Co., Ltd.	102,500 00	9521
Hamilton, City of, *vs.* Cyrus A. Birge	60,000 00	9600
Gillies, Wm. (Gillies Telephone System), *vs.* Township Albemarle	1,250 00	9627
Gillies, Wm. (Gillies Telephone System), *vs.* Township Eastnor	1,800 00	9628

BILLS FINANCIAL.

(Referred to the Board under Rule 61*a* of the House.)

		Procedure File
Sioux Lookout, Town of	Bill No. 13, 1924	9009
Goderich, Town of	Bill No. 6, 1924	9025
North Bay, Town of	Bill No. 9, 1924	9026
Oakville, Town of	Bill No. 16, 1924	9042
Georgetown, Town of	Bill No. 62, 1924	9043

BRIDGES, RELIEF FROM REBUILDING OF.

(Section 460 (9) of "The Consolidated Municipal Act, 1922.")

	Procedure File
Brighton, Township of—On allowance for road on east side of Lot 25, Con. "A"	9386
Caradoc, Township of—On road between Lots 20 and 21, First Range north of the Longwoods Road	9522

CEMETERIES, INCORPORATION OF ADDITIONAL LAND IN, ETC.

(Section 40 (*a*) of "The Cemetery Act," as enacted by section 2 of "The Cemetery Amendment Act, 1921.")

	Procedure File
Marmora, Village of—Vesting of certain lands in Provisional Trustees of Protestant Cemetery (P. 469)	9277

COUNTY ROAD—ABANDONMENT OF PART OF.

(Section 448 of "The Consolidated Municipal Act, 1922.")

Wellington, County of—Approval By-law 1133 (amending By-law 1010, abandoning part of County Road No. 28	9576

DETACHMENT OF FARM LANDS FROM TOWN OR VILLAGE.

(Section 21*a* of "The Consolidated Municipal Act, 1922.")

	Procedure File
Midland, Town of—Detachment from of lands of Elijah D. Campbell and annexation of same to Township Tay	9526
Wroxeter, Village of—Detachment from of lands of Wm. Hastie, *et al.*, and annexation of same to Townships Howick and Turnberry (P. 478)	9548

EXTENSION OF DEBENTURE ISSUE PERIOD.

(Section 288 (9) (10) of "The Consolidated Municipal Act, 1922.")

Municipality	By-law No.	Purpose	Amount	Procedure File
Windsor, City of	2886 (amended)	Parks purposes	$100,000 00	8974
Wingham, Town of	854 (1921)	Waterworks	12,000 00	8998
Fort William, City of	2114	Technical School	68,750 00	9156
Welland, City of	124	Housing	250,000 00	9188
Sault Ste. Marie, City of	1156 (amended)	Sewers	12,000 00	9260
Sioux Lookout, Town of	80	Loan under Ontario Housing Act	9,000 00	9453
Eastnor, Township of	73	Drainage work	7,473 37	9533
Belleville, City of	2115	Aid to G.W.V.A.	10,000 00	9696
			$469,223 37	

EXTENSION OF TIME TO PASS BY-LAWS.

(Section 280 (5) of "The Consolidated Municipal Act, 1922.")

Municipality	By-law No.	Purpose	Amount	Procedure File
Windsor, City of	3117	Motor fire pump, etc.	$16,000 00	8975
North York, Township of	62	Construction of Hydro-Electric Power Distribution System, Area No. 1	.....	8982
North York, Township of	63	Construction of Hydro-Electric Power Distribution System, Area No. 1	70,000 00	8983
North York, Township of	66	Construction of Hydro-Electric Power Distribution System, Area No. 2	.....	8984
North York, Township of	67	Construction of Hydro-Electric Power Distribution System, Area No. 2	18,000 00	8985
Huntsville, Town of	426	Public School purposes	27,000 00	9184
Mount Forest, Town of	764	To guarantee bonds of Mount Forest Carriage Co., Ltd.	20,000 00	9226
Pembroke, Town of	1087	Bridge over Muskrat River	75,000 00	9293
Sandwich, Town of	1215	Hydro-Electric Power Plant	85,573 02	9328
North Bay, Town of	693	Watermains, etc.	38,000 00	9409
Kingston, City of	45 (1923)	Fire apparatus	16,000 00	9460
Calvert, Township of	69	Town Hall	10,000 00	9501
Scarborough, Township of	1249	Bridges	12,000 00	9612
Stamford, Township of	44 (1924)	Fire protection equipment	5,000 00	9690
			$392,573 02	

THE (MUNICIPAL) FRANCHISES ACT.

(Chapter 197, R.S.O.)

	Procedure File
Stratford, City of—Stratford Gas Co., Franchise By-law 2889	9201

FUEL—BY-LAWS FOR BUYING, ETC.

(Section 399 (39*a*) of "The Consolidated Municipal Act, 1922.")

	Procedure File
Teck, Township of—By-law 146, $6,000	8990

HIGHWAYS (NARROW).

(Section 479 of "The Consolidated Municipal Act, 1922.")

	Procedure File
Kitchener, City of—Approval By-law 1747, opening of lane north of King Street, between Ontario and Queen Streets, at width of 20 feet	9128
Kitchener, City of—Approval By-law 1754, extension of Betzner Avenue from present south end to King Street at a width of 50 feet	9129
Kitchener, City of—Approval By-law 1779, extension of Ahrens Avenue in a westerly direction to city limits, at width of 40 feet	9130
Kitchener, City of—Approval By-law 1780, widening of Blucher Street between Pinke Street to Brunswick Avenue, to uniform width of 40 feet	9131
Hamilton, City of—Approval By-law 2191, to establish Aileen Place as a public highway, at width of 50 feet	9234
Kitchener, City of—Approval By-law 1786, opening and extension of Betzner Avenue, at width of 50 feet	9383
Kitchener, City of—Approval By-law 1792, opening of street between Henry and Park Streets, at a varying width less than 66 feet	9384
Fort William, City of—Approval By-law 2386, opening of "Collin's Place" from Franklin Street to Sprague Street, at width of 33 feet	9586
St. Catharines, City of—Extension of Davidson Street, to meet the eastern boundary of Young Street	9595

INTEREST DECREASE BY-LAWS.

(Section 291 of "The Consolidated Municipal Act, 1922.")

Municipality	Debenture By-law	Purpose	Interest Decrease By-law	Rate	Amount	Procedure File
Etobicoke Township of.	1394	Bridge.....	1528	6% to 5½%	$50,000	9058
Etobicoke, Township of.	1483	Establishment of Fire Area, No. 2	1598	6% to 5½%	3,300	9446

LEGISLATION (SPECIAL).

	Procedure File
Smith's Falls, Town of—Approval of erection of Soldiers' Monument on Beckwith Street	9210
McKittrick Properties, Ltd., *et al.*—Change in method of assessment of lands in City of Hamilton, to Local Improvement plan	9241
West Nissouri, Township of—(Board of Trustees of S.S. No. 8), for discontinuance of West Nissouri Continuation School	9292

LOCAL IMPROVEMENTS, PETITIONS AGAINST.

(Section 9 of "The Local Improvement Act.")

	Procedure File
Toronto, City of—Petition of College Heights Estates, Ltd., *et al.*, against extension of Lascelles Boulevard	9051
Guelph, City of—Petition Annie Quinn, *et al.*, against Paisley Road pavement	9189
Guelph, City of—Petition Geo. Hurley, *et al.*, against Mercer Street sidewalk	9190
Guelph, City of—Petition Jas. Watt Estate, *et al.*, against Argyle Street pavement	9202
Chatham, City of—Petition Jno. Watson, *et al.*, against Edgar Street pavement	9244
Chatham, City of—Petition V. B. Moorey, *et al.*, against Edgar Street pavement	9244-A
Ottawa, City of—Petition Sir Henry N. Bate Realty Corporation, Ltd., against Besserer Street sidewalk	9284
Toronto, City of—Union Stock Yards of Toronto, *et al.*, against West Toronto Street pavement, etc	9305
Hamilton, City of—Petition Chas. W. Myles, *et al.*, against Queen Street pavement	9337
Blyth, Village of—Petition James MacMurchie, *et al.*, against Queen and Dinsley Streets pavements	9354
Ottawa, City of—Petition O. Chartrand, *et al.*, against St. Patrick Street pavement	9431
Ottawa, City of—Petition Glebe Trustees of St. Andrew's Church, *et al.*, against Bronson Avenue (east side) sidewalk	9432
Brockville, Town of—Petition Edward A. Horton, against Pearl Street pavement	9454
Ottawa, City of—Petition Alphonse Villeneuve, *et al.*, against pavement on Bayswater Avenue	9481
Ottawa, City of—Petition Public Works Department of Dominion Government, against present construction of sidewalk on Sussex Street	9530
Belleville, City of—Petition Jno. Doyle Estate, *et al.*, against manner of construction of repairs, etc., of roadway on Pinnacle Street	9594
Toronto, City of—Petition W. S. Mahaffy, *et al.*, against extension and grading of Jedburgh, Greer and Elm Roads	9624

LOCAL IMPROVEMENTS—PART ONLY OF WORK.

(Section 18*a* of "The Local Improvement Act.")

Municipality	Amending By-law No.	Original By-law No.	Procedur File
Port Dover, Village of	243	209	8922e
Toronto, City of	9897	8786	9066
Toronto, City of	9898	9409	9067
Toronto, City of	9899	9408	9068
Toronto, City of	9900	9410	9069
Toronto, City of	9901	9407	9070
Toronto, City of	9902	9406	9071
Toronto, City of	9903	9403	9072
Toronto, City of	9904	9384	9073
Toronto, City of	9905	9730	9074
Toronto, City of	9906	8937	9075
Toronto, City of	9907	9195	9076
Toronto, City of	9908	9834	9077
Toronto, City of	9909	8863	9078
Toronto, City of	9799	9196	9118
Toronto, City of	9800	9753	9135
Peterborough, City of	2525	2493	9278
Toronto, City of	10096	9702	9398
Walkerville, Town of	1022	923	9457
St. Catharines, City of	3541	3488	9625
Toronto, City of	10198	9702	9650

"THE NORTHERN FIRE RELIEF ACT, 1923."

		Procedure File
Haileybury, Town of—Approval By-law 603, Local Improvements (sidewalks)	$16,217 55	9044
Haileybury, Town of—Approval Debenture Issue, Local Improvements (sidewalks) (P. 467)	14,031 20	9233

"THE ONTARIO RAILWAY AND MUNICIPAL BOARD ACT."

(Chap. 186, R.S.O.)

	Procedure File
McMartin, Morgan, *vs.* Westport Electric Light & Milling Co., Ltd.—Electric Light Service Agreement	9425

PARKS—SETTING ASIDE PART OF FOR ATHLETIC PURPOSES.

(Section 13 of "The Public Parks Act," Chap. 203, R.S.O., 1914)

	Procedure File
Mimico, Town of—Approval By-law No. 500, setting aside the whole park	9177
Hamilton, City of—Approval By-law No. 10 of Board of Park Management, setting aside "Chedoke Golf Club Lands"	9250
Kitchener, City of—Approval By-law No. 17 of Board of Park Management	9282
Stratford, City of—Approval By-law No. 300 of Board of Park Management	9642

REPEAL OF MONEY BY-LAWS AS TO RESIDUE NOT RAISED.

(Section 292 of "The Consolidated Municipal Act, 1922.")

Municipality.	Original By-law.	Purpose.	Debentures authorized.	New By-law	Residue not required.	Procedure File.
Windsor, City of	2866	Parks	$130,000	3193	$30,000	8978
Percy, Township of	787	Electric power distribution plant in Police Village of Warkworth.	14,000	803	3,000	9286
Etobicoke, Township of.	1483	Fire Hall	4,000	1673	700	9560 9560-A
Carleton Place, Town of.	893		23,000	914	3,000	9701
					$36,700	

RESTRICTED AREAS.

(Section 399a of "The Consolidated Municipal Act, 1922.")

Municipality.	By-law No.	District.	Procedure File.
Toronto, City of	9874	Walmer Road, Bloor Street to Bernard Avenue	8908
Toronto, City of	9895	Poplar Plains Crescent	8968
Port Colborne, Town of	27 (1924)	Certain restricted areas or zones	9208
York, Township of	7663	Eglinton Avenue	9394
Ford City, Town of	593	Dawson Road, Lawrence Road, and Raymo Road, between Ottawa Street and C. N. Ry.	9401
Forest Hill, Village of	28	Eglinton Avenue	9459
Ottawa, City of	5789	Clemow Avenue (certain parts)	9495
Forest Hill, Village of	17	General area	9617
Ottawa West, Police Village of	997 of Tp. Nepean	General area	9643
Toronto, City of	10210	Turnberry Avenue	9645
Toronto, City of	10255	Russell Hill Road, between Poplar Plains Road and St. Clair Avenue	9705

REPEAL (IN PART) OF RESTRICTED AREAS.

(Section 399a (2b) of "The Consolidated Municipal Act, 1922.")

Municipality.	Repealing By-law.	Original By-law.	Property withdrawn.	Procedure File.
Toronto, City of	9920	9188	Lot No. 33, Plan 578, northwest corner of Bloor and St. George Streets	9010
Toronto, City of	10050	9683	99 Crescent Road	9225
Fort William, City of	2369	2176	East side of Catherine Street from Ridgeway to Isabella Street	9242
Toronto, City of	10067	9411	57 Hilton Avenue	9251
Toronto, City of	10142	8815	22 Roxborough Street West	9535
Toronto, City of	10129	9188	190 St. George Street (P. 485)	9536
Toronto, City of	10155	9332	25 and 27 Newmarket Avenue	9578
Stratford, City of	2953	2740	Part west side of John Street	9694

SEWAGE AND SEWAGE DISPOSAL WORKS.

(Section 94 of "The Public Health Act," as amended).

	Procedure File.
Guelph, City of—Construction of sewer in Township of Guelph (P. 468)	9268
Kitchener, City of—Construction of sewer in "Spring Street Area" (P. 474)	9429
Campbell, Margaret—Compensation for lands in Township of Waterloo expropriated by City of Kitchener under Board's Order in P.F. 9429	9671

SEWERAGE AREAS.

	Procedure File.
Scarborough, Township of—Area No. 1—(Section 13 (3), Chapter 88, 13-14 Geo. V, (1923))	9557

SINKING FUNDS INVESTMENT BY-LAWS.

(Section 303 of "The Consolidated Municipal Act, 1922.")

	Procedure File.
Brockville, Town of—Approval of Sinking Fund Investment By-law B. 1394, in debentures under By-law B. 1385—Local Improvements, $43,740.99	8929

"THE SUBURBAN AREA DEVELOPMENT ACT, 1921."

(Chapter 66, Ontario Statutes, 1921, sec. 7.)

	Procedure File.
Stevenson Place Surburban Service Board and City of Ottawa—Approval Agreement dated September 13th, 1924	9524

TAX RATE.

(Section 297 (2) of "The Consolidated Municipal Act, 1922," as enacted by section 3, Chapter 53, Ontario Statutes, 1924).

		Procedure File.
Galt, City of—Approval proposed By-law for Waterworks extensions and improvements	$30,470 67	9399
Sturgeon Falls, Town of—Approval By-laws 543, 544, 545, 546 and 547—Completion of Water Purification Plant, etc.	22,587 85	9414
Parry Sound, Town of—Approval By-law 567—Bridge across Sequin River	8,000 00	9486
Crystal Beach, Village of—Approval By-law 72—Waterworks System.	67,000 00	9674
Crystal Beach, Village of—Approval By-law 73—Watermains	103,855 00	9675
Carleton Place, Town of—Approval By-law 891—Waterworks Extensions	30,750 00	9700
	$262,663 52	

TOWNS ERECTED INTO CITIES.

(Section 20 of "The Consolidated Municipal Act, 1922.")

	Procedure File.
Oshawa	8945

(POLICE) VILLAGES, FORMATION OF.

(Sections 502 (3) and 504a of "The Consolidated Municipal Act, 1922.")

	Procedure File.
Verner—Erection of part of Township Caldwell (District Nipissing), into	9046

WARDS—DIVISION OF CITY, ETC., INTO.

(Section 44 of "The Consolidated Municipal Act, 1922").

	Procedure File.
Windsor, City of—Change of location of boundary line between Wards 3 and 4	9198

WATERWORKS.

	Procedure File.
Scarborough, Township of—Approval By-law 1260—Designation of Water Area No. 3	8971
Etobicoke, Township of—Approval proposed By-law No. 1529—Waterworks construction in Area No. 7	9059
Oshawa, Town of—Approval By-law 1674—Construction of watermains	9061
Oshawa, City of—Approval By-law 1690—Construction of watermains ($38,836.41)	9126
Oshawa, City of—Approval By-law 1700—Construction of watermains ($38,836.41)	9154
Crowland, Township of—Approval By-law 76 (1923)—Waterworks construction	9266
Etobicoke, Township of—Approval By-law 1610—Construction of watermains in Area No. 7 ($95,000) (P. 482)	9476
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Oshawa, City of—Approval By-law 1722—Construction of watermains as authorized by By-law 1611	9680

WEIGH SCALES AND WEIGHING OF COAL, ETC.

(Section 401 of "The Consolidated Municipal Act, 1922").

	Procedure File.
Napanee, Town of—Approval Coal and Coke Weighing By-law 1182	9405

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		Procedure File.
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Ansonville Telephone Co., Ltd	Approval Agreement for interchange of service with the Temiskaming & Northern Ontario Railway Commission	9262
Alnwick Rural Telephone Co	Paralleling of pole leads of Harwood Rural Telephone Co	9270
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Arran, Township of	Approval By-law 14—use of certain highways to The Grimston Telephone Co., Ltd	9683
Bobcaygeon Rural Telephone Co	Increased charges	8914
Beeton Telephone Co	Investment of portion of Depreciation Fund in Government bonds	8940
Booth, Wm., and A. E. Fletcher	*See* "Kaladar Northern Telephone Co."	
Blanshard Municipal Telephone System	Price to be offered for plant and equipment of St. Mary's, Medina & Kirkton Telephone Co., Ltd	9001
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Belmont Municipal Telephone System	Approval By-law 647, Township Belmont & Methuen—providing for issue of debentures to meet cost of	9294
Brant, Township of	Approval By-law 43—use of certain highways to The Vesta Telephone Co., Ltd.	9339
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Brussels, Village of	Authority to pass By-law No. 3 (1924), providing for certain reconstruction, etc., of The Brussels, Morris & Grey Municipal Telephone System, etc.	9373
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Fourth Line Telephone Association	Approval agreement for interchange of service with Queen's Line Telephone Ltd., *et al*	9053
Fort William, City of	Approval By-law 2297, debenture issue to meet cost of extensions and improvements to The Fort William Municipal Telephone System	9080
Fort Frances, Town of	Approval By-law 739, establishment of telephone system under part I of the Act	9166
Fields, Fred	Telephone service by Harwood Rural Telephone Co	9270
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Hilliard, Township of	Approval agreement for interchange of service with The Temiskaming Telephone Co., Ltd	8979

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Hilliard, Municipality of; C. Wood, *et al.*, vs	Enquiry as to sufficiency of charges to subscribers	9506
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Hastings, County of; Bradden Telephone Co., Ltd., vs	Apportionment of cost of removal of poles	9514
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Monteith-Dempsey Telephone System	Approval of sale of plant, etc., of to The Bell Telephone Co., of Canada, Ltd	9637
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McCormick, Ambrose, vs. Township Caledon	Terms, etc., for telephone service	9511
McVittie, Township of (unorganized)	Erection of poles and wires upon highways of, by Temiskaming Telephone Co., Ltd	9685
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St. Marys, Medina & Kirkton Telephone Co., Ltd	Price to be offered by Blanshard Municipal Telephone System, for system of	9001
Salem Telephone Co., Ltd	Approval By-law 851 of Township Darlington, granting use of certain highways to	9054
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South Diagonal Telephone Co	Increased charges	9261
South Bruce Rural Telephone Co., Ltd	Agreement for interchange of service with The Wroxeter Rural Telephone Co., Ltd	9301
St. Vincent, Township of	Increased charges	9365
Sherwood, Jones & Burns, Municipality of United Townships of	Approval debenture By-law No. 50, establishment of municipal telephone system	9393
Sandwich West Co-operative Telephone Co., Ltd	Increased charges	9424
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Sydenham, Township of	Approval By-law 14, use of certain highways to The Bognor Telephone Co., Ltd	9509
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Temiskaming Telephone Co., Ltd	Approval agreement for purchase of certain telephone system of Municipality of Kerns, and removal of names of Edgar James, *et al.*, from petition for establishment thereof	9229
Temiskaming & Northern Ontario Railway Commission	Approval agreement for interchange of service with The Ansonville Telephone Co., Ltd	9262
Thompson, Township of	Approval By-law 148, use of certain highways to The Golden Rule Telephone Co., Ltd	9263
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Vesta Telephone Co., Ltd	Approval By-law 43 of Township Brant, granting use of certain highways to	9339
Vesta Telephone Co., Ltd	Approval By-law No. 13 of Township Elderslie, granting use of certain highways to	9340
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White Telephone Co., Ltd	Approval By-law 229 of Township Mersea, granting use of certain highways to.	9003
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Wallacetown & Lake Shore Telephone Association	Increased charges	9091
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Watt, Township of	Approval By-laws 566, 567 and 568, debenture issue for establishment of The Watt Municipal Telephone System	9153
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LIST OF BELL TELEPHONE AGREEMENTS APPROVED BY THE BOARD UNDER SECTION 82 OF "THE ONTARIO TELEPHONE ACT, 1918."

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Chelmsford Telephone Line. *See* "Tremblay, R. V."	
Cambray Telephone Co., Ltd	9461
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Dungannon Municipal Telephone System	8913
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Dysart, Township of	9550
Davis, Messrs. Joseph and Leslie. *See* "Rankin Telephone Co."	
Douro, Township of	9618
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Fingal Telephone Co., Ltd	9419
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Hopetown Telephone Co., Ltd	9697
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Kerr Line Telephone Co., Ltd	8923
London, Township of	9079
Leeds & Frontenac Rural Telephone Co., Ltd	9336
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Lavant-Dalhousie Telephone Co., Ltd	9646
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North Renfrew Telephone Co., Ltd	8924
Norfolk & Tillsonburg Telephone Co., Ltd	9049
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Beatty Telephone System (A. C. Beatty)	9041
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Bond Corners Telephone Co., Ltd	9211
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Byron Telephone Co., Ltd	9333
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Balsam Hill Telephone Co., Ltd	9368
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Brockville Road Rural Telephone Co., Ltd	9567
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Colchester North Telephone System	9378
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Derby Telephone Co., Ltd	9103
Dingwall Telephone Co., Ltd	9212
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Dunsford Telephone Light & Power Co-operative Association, Ltd	9538
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Excelsior Telephone Co., Ltd	9213
East Woodville Telephone Co., Ltd	9361
Eldon Union Telephone Co., Ltd	9362
East Darlington Telephone Co., Ltd	9583
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Fairview Telephone Co., Ltd	9214
Fraser Telephone Co., Ltd	9215
Fingal Telephone Co., Ltd	9419
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Goulais Bay Telephone Co., Ltd	9296
Greenwood Telephone Association, Ltd	9332
Goodwood Rural Telephone Co., Ltd	9379
Glenview Rural Telephone Co., Ltd	9477
Golden Rule Telephone Co., Ltd	9478
Halton Telephone Co., Ltd	9007
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Hope Lumber Company's Telephone System	9095
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Hampshire Telephone Co., Ltd	9513
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Ingleside Telephone Co., Ltd	9216
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Milton Telephone Co., Ltd	8986
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Oro Telephone Co., Ltd	9092
Progressive Telephone Co., Ltd	9021
Peerless Telephone Co., Ltd	9218
Penhurst Telephone Co., Ltd	9219
Pioneer Telephone Co., Ltd	9220
Queen's Line Telephone Co., Ltd	8928
Riverside Telephone Co., Ltd	9221
Riverview Telephone Co., Ltd	9258
Renfrew & Shamrock Telephone Association, Ltd	9369
Rumney Settlement Telephone Co., Ltd	9423
Silcote Telephone Co., Ltd	8900
Saugeen Rural Telephone Co., Ltd	8909
South Diagonal Telephone Co., Ltd	9057
Springcreek Telephone Co., Ltd	9222
Scratch & Palmer Telephone System	9223
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Salem Telephone Co., Ltd	9322
Sandwich West Co-operative Telephone Co., Ltd	9335
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Superior Telephone Club	9464
Second Line Drummond Telephone Co., Ltd	9473
South McNaughton Telephone Co., Ltd	9490
South Brant Rural Telephone Co., Ltd	9545
South Elderslie Telephone Co., Ltd	9553
Sullivan & Elderslie Telephone Co., Ltd	9554
Tarentorus Telephone Co., Ltd	9359
Thessalon, Township of (operating The Ansonia & Thessalon Municipal Telephone System)	9364
Uptergrove Telephone Co., Ltd	9181
Victoria Rural Telephone Co., Ltd	9647
White Telephone System	9334
Widdifield Municipal Telephone System	9497
Wahnapitae Power Co., Ltd	9597
Zion Line Telephone Association	8926

TARIFF OF FEES

TARIFF OF FEES PAYABLE IN CASH UNDER SECTION 62 OF "THE ONTARIO RAILWAY AND MUNICIPAL BOARD ACT"

For copy of any Document, 10 cents for each 100 words and 50 cents for each Certificate.

For copy of any map or plan, applicants are to pay draughtsmen's and engineer's fees for same and 50 cents for each Certificate.

In contentious matters requiring a hearing there shall be paid in Law Stamps the sum of $15.00 for each day or fraction thereof over one-half day, and the sum of $10.00 for each half day or less occupied by or in connection with the hearing, and $1.00 on each original subpœna.

In Cases in Which There Is No Opposing Party.

On order, under Section 295 of "The Municipal Act," validating a By-law and Debentures, the following sums shall be paid in Law Stamps:

These fees shall be payable on each group of four By-laws (grouped by serial numbers), consolidated under "The Local Improvement Act."

	Law Stamps
Where the issue of Debentures amounts to $10,000 or less	$15 00
Over $10,000 and up to $15,000	20 00
" $15,000 " $20,000	25 00
" $20,000 " $25,000	30 00
" $25,000 " $30,000	35 00
" $30,000 " $40,000	40 00
" $40,000 " $50,000	45 00
" $50,000 " $60,000	50 00
" $60,000 " $70,000	55 00
" $70,000 " $80,000	60 00
" $80,000 " $90,000	65 00
" $90,000 " $100,000	70 00
" $100,000 " $110,000	75 00
" $110,000 " $120,000	80 00
" $120,000 " $130,000	85 00
" $130,000 " $140,000	90 00
" $140,000 " $150,000	95 00
" $150,000 " $160,000	100 00
" $160,000 " $170,000	105 00
" $170,000 " $180,000	110 00
" $180,000 " $190,000	115 00
" $190,000 " $200,000	120 00
" $200,000 such sum as the Board may order or direct.	

The following sums shall be paid in Law Stamps on the following Orders:

On Order for approval of By-law for work ordered by Dominion or Ontario Railway Board. Mun. Act, Sec. 289 (*f*)	$10 00
On Order for approval of By-law for extension of Waterworks or Electric Light or Gasworks, etc. Mun. Act, Sec. 400 (3)	10 00
On Order for approval of Sinking Fund Investment By-law. Mun. Act, Sec. 303	5 00
On Order for approval of Extension of Debenture Issue Period. Mun. Act, Sec. 288 (9).	5 00
On Order for approval of By-law increasing the rate of interest on debentures. Mun. Act, Sec. 291	5 00
On Order for approval of Bridge Construction By-law. Mun. Act, Sec. 289 (*e*)	5 00
On Order extending the time to pass a By-law. 7 Geo. V, Chap. 33, Sec. 7	5 00
On Order approving Municipal Fuel By-law. 7 Geo. V, Chap. 42, Sec. 12 (2)	5 00
On Order approving Railway Company's Public By-laws and Rules	2 00
On Order approving Railway Company's Tolls and Tariffs	2 00
On Order approving Railway Fenders. Sec. 253 of "The Ontario Railway Act"	5 00
On Order approving Railway Company's Examiner of Motormen	1 00
On approval of a Plan under "The Planning and Development Act." (8 Geo. V, Chap. 38)	5 00
On approval of a Deed, etc., under "The Planning and Development Act"	2 00
On approval of a Plan under "The Ontario Railway Act"	5 00
On Orders not included in the above list, such sums as the Board may order or direct.	

Tariff of Fees Payable in Law Stamps under "The Ontario Telephone Act, 1918."

On Order.

Approving Connecting Agreement with The Bell Telephone Company of Canada, Limited; under Section 82	$5 00
Approving Connecting Agreement between telephone systems within the jurisdiction of Ontario; under Section 82	2 00
Approving Municipal By-law granting the use of highways; under Section 67	1 00
Approving Municipal By-law providing for the establishment or extension of telephone systems; under Section 13	5 00
Granting the use of highways in unorganized townships; under Section 71	2 00
Authorizing the extension of telephone system established pursuant to Section 13, into unorganized townships; under Section 12	5 00
Extending the period within which debenture By-law to cover the cost of establishing telephone systems pursuant to Section 13, may be passed under Section 19	5 00
Authorizing the passing of By-law extending the period for repayment of debentures to cover the cost of telephone system established pursuant to Section 13, beyond 10 years; under Section 20	10 00

Authorizing the passing of By-law providing for the issue of new debentures to provide for the payment of a portion of the principal of the original debentures falling due in any year; under Section 23 ..... $5 00
Authorizing the removal of signatures from a petition praying for the establishment of a telephone system pursuant to Section 13; under Section 7 ..... 2 00
Authorizing a company to issue additional stock or bonds; under Section 94 ..... 5 00
Authorizing a company to expend a portion of its Depreciation Reserve in new construction, etc.; under Section 93 ..... 5 00
Approving regulations to prevent the misuse of system by subscribers; under Section 95 2 00

On any Order nor included in the above list such sums as the Board may order or direct. The above fees to apply only in cases not requiring a hearing.

In contentious matters requiring a hearing: $15 for each day or fraction thereof over one-half day, and $10 for each half-day or less occupied in connection with the hearing.

Where inquiry is made by the Board's expert, $10 for each day or fraction thereof over one-half day, and $5 for each half-day or less occupied in connection with such enquiry.

MEMO. OF LEGISLATION UNDER WHICH THE BOARD EXERCISES JURISDICTION

Annexation of Territory to Municipality.
Sections 11 to 23, inclusive of "The Consolidated Municipal Act, 1922."
(See secs. 31, 52 (4), 62, 66, 93).
Detachment of Farm Lands from Town or Village (sec. 21a).

Arbitrations.
Excess land as compensation.
Section 322*a* of "The Consolidated Municipal Act, 1922."
Public Works Expropriations. (See "Public Works.")

Area of Town or Village Limited.
Section 14 of "The Consolidated Municipal Act, 1922."

Assessment Appeals.
Section 79 (Assessment of Telephone Company) of "The Assessment Act" (c. 195, R.S.O., 1914).
Amended 1915, c. 36, sec. 6.
Section 80 of "The Assessment Act."
Amended 1915, c. 36, sec. 7.
Amended 1916, c. 41, sec. 6.
See sec. 26, c. 24, Ontario Statutes, 1916.

Beaches and River Beds Act, The
Chapter 245, R.S.O., 1914.

Bonus By-Laws.
See "The Bonus Limitation Act, 1924."

Boundary Lines, Deviation of Roads on, Etc.
Section 469 of "The Consolidated Municipal Act, 1922,"
(and see secs. 439, 453, 458, 468).

Bridges Between Counties, Etc.
"The Highway Improvement Act," as amended by sec. 7, chapter 17, Ontario Statutes, 1917.

Bridge, Dispensing with Reconstruction of
Section 460 (9) and (10) of "The Consolidated Municipal Act, 1922."

By-Laws.
Approval of, for Bridge Construction.
Section 289 (2) (*e*) of "The Consolidated Municipal Act, 1922."
Approval of, for extension of Municipal Railway Systems.
Section 232 of "The Ontario Railway Act."
Amended chap. 67, Ontario Statutes, 1922.
Approval of, for extension of Waterworks, Electric Light Plants, Sewers or Gas Works or Street Railway System.
Section 400 (3) of "The Consolidated Municipal Act, 1922."
Amended, see Sections 13 and 14, chap. 53, Ontario Statutes, 1924.
See Sections 7 and 9, chap. 20, Ontario Statutes, 1917.

Approval of, for investment of Sinking Fund.
Section 303 of "The Consolidated Municipal Act, 1922."
Approval of, for purchase of fuel, etc.
Section 399 (39*a*) of "The Consolidated Municipal Act, 1922."
Approval of, for weighing coal or coke.
Section 401 (13) of "The Consolidated Municipal Act, 1922."
Approval of, granting franchises.
Sections 5 and 6, c. 197, R.S.O., 1914.
Amended 1915, c. 38, sec. 1, and see c. 51, Ontario Statutes, 1919.
Approval of, granting unemployment relief.
Section 4, c. 41, Ontario Statutes, 1922.
Approval of Interest Increase or Decrease By-law.
Section 291 of "The Consolidated Municipal Act, 1922."
Approval of, to pay for works ordered by Dominion or Ontario Railway Boards.
Section 289 (2) (*f*) of "The Consolidated Municipal Act, 1922."
Approval of, to repeal by-laws as to that part of moneys not raised.
Section 292 of "The Consolidated Municipal Act, 1922."
Approval of, to restrict use, etc., of buildings in defined areas.
Section 399*a* of "The Consolidated Municipal Act, 1922."
Amended 1924, chap. 53, sections 12 and 22.
Bonus.
See "The Bonus Limitation Act, 1924."
Validation of, and Debentures.
Section 295 of "The Consolidated Municipal Act, 1922."

Cemeteries.
Vesting in Trustees, closing roads, Ontario Statutes, 1920, c. 96, sec. 2.

Consolidation of Floating Debt or Consolidation or Renewal of Debentures by Act of the Legislature.
Rule 61*a*, page 421, Votes and Proceedings of The Legislative Assembly, 27th March, 1907.

Debentures, Extension of Period for Issue of
Section 288 (9) and (10) of "The Consolidated Municipal Act, 1922."

Debts, Municipal, When Tax Rate Exceeds 25 Mills.
See Sec. 3, chap. 53, 1924.

Erection of Villages and Towns into Towns and Cities.
Section 20 of "The Consolidated Municipal Act, 1922."

Farm Lands. Detachment of, from town or village.
Section 21*a* of "The Consolidated Municipal Act, 1922."

Franchises, Approval of By-laws Granting.
R.S.O., chap. 197, secs. 5 and 6.
Amended 1915, chap. 38, sec. 1.
Amended 1919, chap. 51.

Fuel, Municipal Dealings in
Section 399 (39*a*) of "The Consolidated Municipal Act, 1922."
Provincial supply of:
Sections 7 and 8, chap. 13, Ontario Statutes, 1918.
Amended 1920, c. 12, sec. 11.

Fuel, Weighing Coal or Coke.
Section 401 (13) of "The Consolidated Municipal Act, 1922."

Highways: Deferred Widening by Municipalities.
Section 325*a* of "The Consolidated Municipal Act, 1922."
Amended 1924, chap. 53, sec. 4.

Highways, Provincial.
Sec. 12, chap. 16, Ontario Statutes, 1917 (amended s. 3, c. 23, 1920, and sec. 4, c. 27, 1921, and sec. 13, c. 27, 1924).
See sec. 3, chap. 17, Ontario Statutes, 1919.

Highways, Expropriations by Counties.
See chap. 26, Ontario Statutes, 1922.

Highways, Widening of.
See sec. 325*a* (3) of "The Consolidated Municipal Act, 1922."
Amended 1924, chap. 53, sec. 4.

HIGHWAYS, WIDTH OF
Section 479 of "The Consolidated Municipal Act, 1922."
Section 1, chap. 30, Ontario Statutes, 1917.
Section 1, chap. 31, Ontario Statutes, 1917.
Chapter 38, Ontario Statutes, 1918.
Chapter 60, Ontario Statutes, 1920.
Chapter 65, Ontario Statutes, 1921.

INCORPORATION OF TOWNS IN UNORGANIZED TERRITORY.
Section 19 of "The Consolidated Municipal Act, 1922."
(See also secs. 31, 52 (4), 62, 66 and 93).

INTERSWITCHING, ETC., BETWEEN DOMINION AND PROVINCIAL RAILWAYS.
Section 253 (3), chap. 68, Dominion Statutes, 1919.
Section 131 of "The Ontario Railway Act."

LANDS AND FORESTS DEPARTMENT, EXPROPRIATION, ETC., BY.
See sec. 8, chap. 13, Ontario Statutes, 1918.

LOCAL IMPROVEMENTS.
Deviating highway, sec. 3, chap. 64, Ontario Statutes, 1921.
Part performance only of proposed work, sec. 2, chap. 42, Ontario Statutes, 1923.
Petitions against:
Sections 7 and 9, chap. 193, R.S.O.
Amended 1914, chap. 21, sec. 42.
Amended 1915, chap. 35, sec. 4.
Amended 1921, chap. 64, sec. 1.
Amended 1924, chap. 57, sec. 6.

MONUMENT IN HIGHWAY.
Section 9, chap. 53, 1924.

MORTGAGES OF RAILWAYS TO BE DEPOSITED WITH BOARD.
Subsection 4 of sec. 48 of "The Ontario Railway Act."

MUNICIPAL ELECTRIC RAILWAYS.
Sections 22, 24, 25, chap. 69, Ontario Statutes, 1922.

NATURAL GAS.
See chap. 12, Ontario Statutes, 1918.
" sec. 10, chap. 13, Ontario Statutes, 1919.
" sec. 20, chap. 17, Ontario Statutes, 1921.
" chap. 23, Ontario Statutes, 1922.

NORTHERN FIRE RELIEF.
Secs. 3 and 4, chap. 7, Ontario Statutes, 1923.

ONTARIO RAILWAY ACT, THE.
Chapter 185 of The Revised Statutes of Ontario, 1914.
Amended 1916, chap. 31, sec. 10.
Amended 1917, chap. 39.
Amended 1918, chap. 20, sec. 25.
Amended 1918, chap. 30.
Amended 1919, chap. 44.
Amended 1920, chap. 56.
Amended 1922, chap. 66 and 67.
Amended 1924, chap. 51.

ONTARIO RAILWAY AND MUNICIPAL BOARD ACT, THE.
Chapter 186 of The Revised Statutes of Ontario, 1914.
Amended 1915, chap. 31.
Amended 1916, chap. 24, secs. 25 and 26.
See secs. 10, 12 and 13, chap. 14, Ontario Statutes, 1917.
Amended 1919, chap. 25, secs. 25, 44.
Amended 1922, chap. 68.

PARKS, SETTING ASIDE PART OF, FOR SPORTS, ETC.
Section 13 (6) of "The Public Parks Act," (chap. 203, R.S.O., 1914.)
Section 398 (32) of "The Consolidated Municipal Act, 1922."

PLANS OF CITY AND SUBURBAN LANDS.
Chapter 38, Ontario Statutes, 1918.

Amended 1919, chap. 53.
Amended 1920, chap. 60.
Amended 1921, chap. 65, sec. 1.
Amended 1924, chap. 58.
(Re Essex Border Utilities Commission. See sec. 8, chap. 93, Ontario Statutes, 1924.)
(Re Municipal responsibility as to Highways. See sec. 10, chap. 41, Ontario Statutes, 1923.)

Police Villages.
Formation of—sec. 502 (3) of "The Consolidated Municipal Act, 1922."
In Provisional Judicial Districts, sec. 504*a* of "The Consolidated Municipal Act, 1922."

Public Health Act.
See sec. 10, chap. 41, Ontario Statutes, 1918, *re* Sewage Disposal Plants.

Public Utilities Act, The
Chapter 204, R.S.O., 1914.
Amended 1914, chap. 35.
Amended 1917, chap. 14, sec. 13.
Amended 1917, chap. 47.
Amended 1920, chap. 71, chap. 73.
Amended 1924, chap. 61.
Re Suburban Development.
See chap. 66, Ontario Statutes, 1921.
See chap. 77, Ontario Statutes, 1922.

Public Works of Ontario, An Act Respecting.
Chapter 35, R.S.O., 1914, secs. 29, *et seq.*, and sec. 46.

Separation of Farm Lands from Town or Village.
Section 21*a* of "The Consolidated Municipal Act, 1922."

Suburban Areas, Development of.
Section 7, chap. 66, Ontario Statutes, 1921.
Chapter 77, Ontario Statutes, 1922.

Taxation of Mines and Natural Gas, Act Respecting.
Chapter 26, R.S.O., 1914, sec. 12 (3), *et seq.*
Amended 1924, chap. 10.

Telephone Systems.
Chapter 31, Ontario Statutes, 1918.
Amended 1919, chap. 43.
Amended 1921, chap. 62, 63.
Amended 1922, chap. 70.
(See chap. 82, Ontario Statutes, 1922.)
Amended 1923, chap. 62.
Amended 1924, chap. 52.

Temiskaming and Northern Ontario Railway Act.
Act respecting; sec. 17, chap. 38, R.S.O., 1914.

Township, Separation of Junior, from Union.
Section 30 of "The Consolidate l Municipal Act, 1922."

(Note.—The above list is prepared to facilitate reference to legislation, and does not purport to be exhaustive. It refers to Public General Acts only, and does not include Special or Private Acts, a great many of which refer matters of local importance to the Board for adjudication, etc.)

STATEMENT IN DETAIL OF TRAVELLING EXPENSES AND DISBURSEMENTS.

January.—A. B. Ingram, Vice-Chairman, $32.25; J. A. Ellis, Commissioner, $44.45; F. Dagger, Supervisor Telephone Systems, $31.60; W. C. Coo, Court Reporter, $33.55; J. A. McDonald, Inspector Telephone Systems, $21.45; E. Crosland, Street Railway Inspector, $12.25.

February.—A. B. Ingram, Vice-Chairman, $20.35; J. A. Ellis, Commissioner, $41.40; F. Dagger, Supervisor Telephone Systems, $23.65; W. C. Coo, Court Reporter, $25.75; E. Crosland, Street Railway Inspector, $27.10.

March.—A. B. Ingram, Vice-Chairman, $43.50; J. A. Ellis, Commissioner, $56.95; F. Dagger, Supervisor Telephone Systems, $14.00; W. C. Coo, Court Reporter, $45.05; J. A. McDonald, Inspector Telephone Systems, $15.75; E. A. Crosland, Street Railway Inspector, $9.50.

April.—D. M. McIntyre, Chairman, $6.30; A. B. Ingram, Vice-Chairman, $40.35; J. A. Ellis, Commissioner, $64.45; F. Dagger, Supervisor Telephone Systems, $21.05; W. C. Coo, Court Reporter, $57.45; J. A. McDonald, Inspector Telephone Systems, $4.00; E. A. Crosland Street Railway Inspector, $26.20.

May.—A. B. Ingram, Vice-Chairman, $49.00; J. A. Ellis, Commissioner, $58.60; F. Dagger, Supervisor Telephone Systems, $96.50; W. C. Coo, Court Reporter, $86.40; E. A. Crosland, Street Railway Inspector, $14.65.

June.—A. B. Ingram, Vice-Chairman, $15.30; J. A. Ellis, Commissioner, $63.70; F. Dagger, Supervisor Telephone Systems, $54.10; W. C. Coo, Court Reporter, $19.30; J. A. McDonald, Inspector Telephone Systems, $34.95; E. A. Crosland, Street Railway Inspector, $48.65.

July.—A. B. Ingram, Vice-Chairman, $10.40; J. A. Ellis, Commissioner, $29.95; F. Dagger, Supervisor Telephone Systems, $12.75; W. C. Coo, Court Reporter, $14.55; E. A. Crosland, Street Railway Inspector, $56.84.

August.—A.B. Ingram, Vice-Chairman, $9.10; W. C. Coo, Court Reporter, $8.60; E. A. Crosland, Street Railway Inspector, $15.15.

September.—D. M. McIntyre, K.C., Chairman, $19.55; A. B. Ingram, Vice-Chairman, $47.70; J. A. Ellis, Commissioner, $85.05; F. Dagger, Supervisor Telephone Systems, $37.15; W. C. Coo, Court Reporter, $82.90; J. A. McDonald, Inspector Telephone Systems, $26.70; E. A. Crosland, Street Railway Inspector, $13.20; H. W. Middlemist, C.E., $3.95.

October.—D. M. McIntyre, K.C., Chairman, $131.17; A. B. Ingram, Vice-Chairman, $128.27; J. A. Ellis, Commissioner, $81.40; F. Dagger, Supervisor Telephone Systems, $127.93; W. C. Coo, Court Reporter, $68.65; J. A. McDonald, Inspector Telephone Systems, $17.25; E. A. Crosland, Street Railway Inspector, $51.45.

November.—D. M. McIntyre, K.C., Chairman, $18.80; A. B. Ingram, Vice-Chairman, $24.60; J. A. Ellis, Commissioner, $46.75; W. C. Coo, Court Reporter, $23.90; J. A. McDonald, Inspector Telephone Systems, $18.10; E. A. Crosland, Street Railway Inspector, $6.25.

December.—D. M. McIntyre, K.C., Chairman, $3.60; A. B. Ingram, Vice-Chairman, $187.35; J. A. Ellis, Commissioner, $175.45; F. Dagger, Supervisor Telephone Systems, $190.00; W. C. Coo, Court Reporter, $18.90; E. A. Crosland, Street Railway Inspector, $45.80.

Total—$3,098.66.

THE FOLLOWING GIVES A BRIEF SUMMARY OF THE EXTENSIONS AND IMPROVEMENTS MADE TO THE RAILWAYS UNDER PROVINCIAL JURISDICTION DURING THE YEAR 1924.

Buffalo and Fort Erie Ferry and Railway Company.

It is reported by this company that during the period ending December 31st, 1924, they changed the terminal, and shortened the track 700 feet.

They also report that during the same period they did not make any expenditure on track improvements, machinery, buildings, etc.

Cornwall Street Railway, Light and Power Company, Limited.

During the year ending 31st December, 1924, this company report that they extended their tracks one-half mile, and at a cost of $4,400.

They also report a total expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., of $24,008.33.

Fort William Electric Railway.

This company report that during the year December 31st, 1923, to December 31st, 1924, they extended their track 547 feet.

They also report that during the same period they made a total expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., of $39,211.61.

Guelph Radial Railway Company.

It is reported by The Hydro-Electric Power Commission of Ontario that during the year ending December 31st, 1924, there were not any extensions made to the track of the Guelph Radial Railway.

It is also reported that during the same period there was an expenditure made on track improvements, overhead structure, rolling stock, buildings, etc., of $6,209.96.

The Hamilton Street Railway Company.

During the year ending December 31st, 1924, this company report an extension to track of 3,162 feet at a cost of $26,809.69.

They also report that during the same period they made an expenditure on track improvements, rolling stock, buildings, machinery, etc., of $7,613.05.

The Hamilton and Dundas Street Railway Company.

For the period ending December 31st, 1924, this company do not report any expenditure on improvements, etc., for the reason that the company ceased operating the line on September 5th, 1923.

The Hamilton, Grimsby and Beamsville Railway Company, Ltd.

During the year ending December 31st, 1924, they report that they did not make any extensions to track, and did not make any expenditure on track improvements, rolling stock, machinery, etc.

The Hamilton and Barton Incline Railway Company.

This company report that during the year December 31st, 1923, to December 31st, 1924, they did not make any extensions to track, and did not make any expenditure on track improvements, rolling stock, etc.

The Hamilton Mountain Park Company, Limited (Incline Railway).

During the year ending December 31st, 1924, this company report that they did not make any extension to track, and did not make any expenditure on the improvement of the road, buildings, machinery, etc.

The Huntsville and Lake of Bays Railway Company.

This company report that during the year ending December 31st, 1924, they did not make any extensions to track.

They also report that during the same period they made an expenditure on track improvements, buildings, machinery, etc., of $912.19.

Hydro-Electric Radial Railway (Essex Division)
(Sandwich, Windsor and Amherstburg Railway.)

During the year ending December 31st, 1924, this company report an extension to track of 0.366 miles at a cost of $42,826.

It is also reported that during the same period there was a total expenditure made on track improvements, overhead structure, rolling stock, buildings, etc., of $329,324.25.

The International Railway Company (Niagara Falls Park and River Division.)

During the year ending December 31st, 1924, this company report that they did not make any extension to track.

They also report that during the same period they made an expenditure on track improvements, buildings, machinery, etc., of $377.87.

The International Transit Company.

This company report that during the year ending December 31st, 1924, they did not make any extension to track, and did not make any expenditure on track improvements, rolling stock, machinery, etc.

Kingston, Portsmouth and Cataraqui Electric Railway Company.

During the year December 31st, 1923, to December 31st, 1924, this company report that they did not make any extension to track.

During the same period they report the following expenditure on improvements to overhead structure, track, buildings, machinery, etc., of $4,162.46, and on car equipment of $5,935.64, making a total expenditure of $10,098.10.

Kitchener and Waterloo Street Railway.

During the year December 31st, 1923, to December 31st, 1924, this company report that they made an extension to track of 385 feet, at a cost of $1,727.84.

They also report that during the same period they made an expenditure on the improvement of the road as follows:

Line	$838 81
Rolling Stock	184 59
Lands	1,495 00
Completion of Car Barn	11,098 93
Total	$13,617 33

NOTE.—The Waterloo-Wellington Railway was purchased by the City of Kitchener, and is now operated as part of the Kitchener and Waterloo Railway system. The charter of the Waterloo-Wellington Railway was surrendered to the Government. The Kitchener and Waterloo Railway give the following figures separately covering this operation for the period ending December 31st, 1924.

They report that the whole track was repaired and renewed in places, at a cost of $24,616.53.

They also report the following expenditure on improvements, etc.:

Line	$7,494 76
Rolling Stock	24,706 67
Lands	3,468 23
Buildings	1,406 05
Total	$37,075 71

LAKE HURON AND NORTHERN ONTARIO RAILWAY.

During the period ending December 31st, 1924, there is nothing to report for this company in the way of expenditure, etc., for the reason that it is not now in operation, having suspended operation in April, 1922.

THE LONDON STREET RAILWAY COMPANY.

During the year December 31st, 1923, to December 31st, 1924, this company report that they did not make any extensions to track.

They also report that they made a total expenditure during the same period on track improvements, overhead structure, rolling stock, buildings, etc., of $34,697.71.

THE MIDLAND SIMCOE RAILWAY COMPANY.

It is reported that this company did not make any extensions to track during the period ending December 31st, 1924. Also that they did not make any expenditure on track improvements, buildings, machinery, etc., during the same period.

MOUNT MCKAY AND KAKABEKA FALLS RAILWAY COMPANY.

During the year December 31st, 1923, to December 31st, 1924, this company report that they did not make any extension to track, and did not make any expenditure on track improvements, buildings, machinery, etc.

PETERBOROUGH RADIAL RAILWAY.

It is reported by the Hydro-Electric Power Commission of Ontario that during the year ending December 31st, 1924, there were no extensions made to the track of the Peterborough Radial Railway.

They also report that during the same period there was an expenditure made on track improvements, overhead structure, buildings, machinery, etc., of $1,172.31.

PORT ARTHUR CIVIC RAILWAY.

This company report that during the year ending December 31st, 1924, they did not make any extensions to track.

They also report that during the same period they spent approximately $500 on track improvements, rolling stock, etc., their figures for 1924 not being quite completed.

SARNIA STREET RAILWAY COMPANY, LIMITED.

During the year ending December 31st, 1924, this company report that they did not make any extension to track, etc.

They report that during the same period they made a total expenditure on track improvements, rolling stock, buildings, machinery, etc., of $1,438.89.

ST. THOMAS MUNICIPAL STREET RAILWAY.

This company report that during the year December 31st, 1923, to December 31st, 1924, they did not make any extensions to track.

They also report that during the same period they made an expenditure on track improvements, etc., as follows:

Track	$783 32
Overhead	19 89
Rolling Stock	2,022 39
Barn	408 76
Total	$3,234 36

Sudbury-Copper Cliff Suburban Electric Railway.

During the year December 31st, 1923, to December 31st, 1924, this company report that they did not make any extension to track, and during the same period did not make any expenditure on track improvements, overhead, rolling stock, buildings, etc.

Temiskaming and Northern Ontario Railway.

It is reported that during the year ending December 31st, 1924, this company had sixty miles of track under construction, of which seventeen miles was completed during the year 1924—costing $1,085,430.29.

They also report that during the same period they made a total expenditure on track improvements, rolling stock, overhead, buildings, machinery, etc., of $511,882.52.

The Thurlow Railway Company.

This company report that during the year ending December 31st, 1924, they did not make any extensions to track, and that they did not make any expenditure on track improvements, rolling stock, buildings, etc., during the same period.

The Toronto Transportation Commission.

During the year December 31st, 1923, to December 31st, 1924, it is reported by this company that they made an extension to track of 11.236 miles, at a cost of $1,594,104.89.

They also report that during the same period they made an expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., of $3,020,010.91.

The Toronto and York Radial Railway.

It is reported by The Hydro-Electric Power Commission of Ontario that during the year December 31st, 1923, to December 31st, 1924, there was no extension made to the track of the Toronto and York Radial Railway.

They report, however, during the same period an expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., of $201,203.32.

Township of York Railways.

During the year ending December 31st, 1924, it is reported by The Toronto Transportation Commission (which operates the above railways) that the expenditure was $586,532.28 for the construction of 7.082 miles of new track, overhead structure, rolling stock, buildings, machinery, etc.

ELECTRIC, STEAM AND INCLINE RAILWAYS UNDER PROVINCIAL JURISDICTION, YEAR ENDING 31ST DECEMBER, 1924.

No.	Name of Railway	Length of road first main track	Length of road second main track	Total main track	Length of sidings and turnouts	Total computed as single track	Length under construction	No. Power Houses		Remarks
								Steam	Water	
		miles	miles	miles	miles	miles	miles			
* 1	Buffalo & Fort Erie Ferry & Railway Company	2.71	.....	2.71	.89	3.60	.....	1	.....	.....
2	Cornwall Street Ry., Light & Power Co., Ltd	4.25	.....	4.25	2.75	7.	.....	.....	1	On south Canal Bank, subsidiary power purchased from St. Lawrence Power Co.
§ 3	Fort William Municipal Ry.	4.935	19.695	24.630	.800	25.430	.....	.....	1	Power purchased from Kaministiquia Power Co.
† 4	Guelph Radial	8.49	.....	8.49	1.56	10.05	.....	.....	.....	They supply power to the Light, Heat & Power Commission of Guelph.
5	Hamilton Street	18.	16.3	34.3	.....	34.3	.....	.....	.....	Power purchased from Hamilton Cataract Power, Light & Traction Co., Ltd.
6	Hamilton and Dundas	5.85	.20	6.05	1.60	7.65	.....	.....	.....	Power purchased from Hamilton Cataract Power, Light & Traction Co., Ltd.
7	Hamilton, Grimsby & Beamsville Electric	22.6	.....	22.6	3.6	26.2	.....	.....	.....	Power purchased from Hamilton Cataract Power, Light & Traction Co., Ltd. (two sub-stations).
* 8	Hamilton & Barton (Incline)	.12	.12	.24	.....	.24	.....	1	.....	Power house located at head of Incline
9	Hamilton & Mountain Park Co., Ltd. (Incline)	.14	.14	.28	.....	.28	.....	.....	.....	Power House Electric on Mountain Top, Hamilton; Power purchased from Hydro-Electric.
*10	Huntsville and Lake of Bays	1.45	.....	1.45	.31	1.76	.....	.....	.....	.....
†11	Hydro-Electric Radial, Essex Division (S.W. & A. Ry.)	36.728	9.406	46.134	3.110	49.244	.....	.....	.....	Power purchased from The Windsor Hydro Commission.
12	International (Niagara Falls Park and River Division)	11.914	11.202	23.116	1.359	24.475	.....	.....	1	.....
13	International Transit	3.80	1.17	4.97	.09	5.06	.....	.....	.....	Power purchased from The Great Lakes Power Co., Ltd.
14	Kingston, Portsmouth & Cataraqui Electric	6.	2.	8.	.....	8.	.....	.....	.....	Power purch'd from City of Kingston.
x15	Kitchener & Waterloo Street	6.55	2.86	9.41	.94	10.35	.....	.....	1	Power purchased from Hydro-Electric Power Commission.

ELECTRIC, STEAM AND INCLINE RAILWAYS UNDER PROVINCIAL JURISDICTION, YEAR ENDING 31ST DECEMBER, 1924—*Cont'd.*

No.	Name of Railway	Length of road first main track	Length of road second main track	Total main track	Length of sidings and turnouts	Total computed as single track	Length under construction	No. Power Houses		Remarks
								Steam	Water	
		miles	miles	miles	miles	miles	miles			
*16	Lake Huron & Northern Ont.	16.	.....	16.	1.	17.	.....	.....	.....	Operation suspended, April, 1922.
17	London Street.....	27.48	7.64	35.12	.98	36.10	.....	.....	.....	Power purchased from Hydro-Electric Power Commission.
*18	Midland Simcoe.....	.....	.....	.....	5.	5.	.....	.....	.....	.....
‖19	Mt. McKay & Kakabeka Falls	5.	.....	5.	1.5	6.5	.....	.....	.....	Windmill at Gravel Pit, Neebing Twp.
†20	Peterborough Radial.....	7.64	.....	7.64	.96	8.60	.....	.....	.....	Power purchased from Hydro-Electric Power Commission.
21	Port Arthur Municipal.....	12.43	6.10	18.53	1.04	9.57	.....	.....	1	Power House located at Current River, Port Arthur. Power purchased from Hydro-Electric Power Commission.
22	Sarnia Street Ry. Co., Ltd....	8.25	.....	8.25	1.	9.25	.....	.....	1	One Hydro-Electric Power Station. Power purchased from Hydro-Electric System.
23	St. Thomas Street (Munic'p'l)	6.5	.....	6.5	.10	6.60	.....	.....	.....	Power purchased from Hydro-Electric System.
24	Sudbury, Copper Cliff Suburban Electric.....	7.9	.....	7.9	.....	7.9	.....	.....	.....	Power purchased from Wahnapitae Power Co., Ltd.
‡25	Temisk'g & Northern Ontario	388.5	1.7	390.2	134.27	524.47	27.	.....	.....	Power purchased from Hydro-Electric Commission, and Northern Ontario Light & Power Co., Ltd.
*26	Thurlow Railway.....	2.671	.....	2.671	2.766	5.437	.....	.....	.....	.....
27	Toronto Transportation Commission.....	100.152	91.946	192.098	30.276	222.374	.....	.....	.....	Power purchased from Ontario Hydro-Elec. and Toronto Hydro-Electric Systems.
†28	Toronto & York Radial.....	80.029	1.315	81.344	14.074	95.418	.....	.....	.....	Power purchased from Ontario Hydro-Electric Power Commission and Toronto Hydro-Elec. System.
29	Township of York Rys.....	4.267	2.716	6.983	0.099	7.082	.....	.....	.....	Operated by Toronto Transportation Commission.
	Total.....	800.356	174.510	974.866	210.074	1,184.940	27.	2	6	

*Steam railways. †Operated by Hydro-Electric Power Commission of Ontario. ‡Operated by Temiskaming and Northern Ontario Commission. §Operated under lease by Fort William Municipal Ry. ‖Fort William Railway operating Mount McKay and Kakabeka Falls Ry. under lease. xMileage includes Waterloo-Wellington railway, purchased by City of Kitchener.

TABULATED SUMMARY OF ACCIDENT REPORTS RECEIVED IN 1924

Passengers		Employees.		Travellers on Highway.		Travellers at Crossing.		Trespassers.		Total.	
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
3	502	2	12	13	120	.....	.....	.....	.....	18	634

ACCIDENTS

TORONTO, 1924.

Summary by months of all accidents on Toronto Transportation Commission's lines.
January 1st to December 31st, 1924.

Nature of Accident	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Collisions with cars	Nil	3	Nil	Nil	1	Nil	Nil	Nil	Nil	Nil	1	Nil	5
Collisions with autos	281	301	214	187	237	267	223	243	265	251	304	326	3,099
Collisions with motorcycles and bicycles	1	2	3	5	6	12	6	5	3	5	6	1	55
Collisions with wagons	9	23	18	8	9	8	11	6	11	7	17	13	140
Boarding cars	12	6	1	5	5	3	3	5	4	5	3	12	64
Alighting from cars	9	22	10	11	8	26	11	8	9	13	19	31	177
Falling within cars	74	141	12	5	8	13	9	13	18	6	32	59	390
Derailment of cars	0	0	0	0	0	2	0	0	1	0	0	1	4
Miscellaneous	29	49	43	24	22	33	33	24	22	29	26	30	364
Total, all accidents	415	547	301	245	296	364	296	304	333	316	408	473	4,298
Personal injuries, all degrees:													
To passengers	84	178	42	28	33	50	35	42	35	33	48	103	711
To others	20	27	13	15	11	14	10	9	16	9	14	12	170
Total	104	205	55	43	44	64	45	51	51	42	62	115	881
Fatal accidents:													
To passengers	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others	Nil	Nil	1	Nil	3	3	2	Nil	2	Nil	Nil	Nil	11
Total	Nil	Nil	1	Nil	3	3	2	Nil	2	Nil	Nil	Nil	11

HAMILTON, '1924.

Accidents on Hamilton Street Railway and Hamilton, Grimsby and Beamsville Electric Railway lines.
January 1st to December 31st, 1924.

Nature of Accident	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Collisions with cars	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Collisions with autos	23	35	59	31	35	16	32	23	32	38	27	34	385
Collisions with motorcycles and bicycles	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1	1	Nil	2
Collisions with wagons	3	4	1	1	1	1	1	1	2	4	2	1	22
Boarding cars	3	1	Nil	2	1	2	1	1	Nil	1	Nil	2	14
Alighting from cars	4	4	2	2	3	1	1	3	3	2	2	4	31
Derailment of cars	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Miscellaneous	1	3	1	1	Nil	Nil	1	2	Nil	1	2	Nil	12
Total, all accidents	34	47	63	37	40	20	36	30	37	47	34	41	466
Personal injuries, all degrees:													
To passengers	7	6	1	5	4	3	3	5	3	4	3	5	49
To others	Nil	2	1	Nil	Nil	0	1	1	0	0	1	1	7
Total	7	8	2	5	4	3	4	6	3	4	4	6	56
Fatal accidents:													
To passengers	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

LONDON, 1924.
Accidents on London Street Railway.
January 1st to December 31st, 1924

Nature of Accident	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Collisions with cars	Nil	Nil	Nil	Nil	Nil	Nil	1	Nil	1	2	Nil	3	7
Collisions with autos	18	30	18	25	28	25	14	38	36	36	35	36	339
Collisions with motorcycles and bicycles	1	Nil	Nil	1	1	Nil	1	Nil	2	Nil	Nil	1	7
Collisions with wagons	Nil	4	1	5	3	2	Nil	Nil	2	2	1	3	23
Boarding cars	2	2	2	Nil	2	2	Nil	Nil	Nil	Nil	Nil	1	11
Alighting from cars	1	3	5	3	Nil	2	5	5	3	6	4	2	39
Derailment of cars	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Miscellaneous	3	4	4	2	2	4	2	5	4	2	6	3	41
Total, all accidents	25	43	30	36	36	35	23	48	48	48	46	49	467
Personal injuries, all degrees:													
To passengers	2	3	4	2	2	2	1	3	2	7	3	3	34
To others	2	1	2	2	2	2	1	3	2	4	3	1	25
Total	4	4	6	4	4	4	2	6	4	11	6	4	59
Fatal accidents:													
To passengers	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1	Nil	1
Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1	Nil	1

ACCIDENTS.

In making the following comparison of accidents recorded, other than personal injuries, between the years 1923 and 1924, it shows a decrease in Toronto in 1924 of 329; in Hamilton, 152; and in London, 193.

It also shows in personal injuries in Toronto an increase of 22, in Hamilton a decrease of 13, and in London of 27.

In fatal accidents it shows an increase of one.

Reports of all kinds of accidents are received from the railways under the jurisdiction of the Board, hundreds of which are trifling and of no serious consequence, other than to make reasonably sure that all kinds are reported to the Board.

TORONTO

	1923	1924	Increase	Decrease
Collisions with cars	15	5	....	10
Collisions with autos	3,301	3,099	....	202
Collisions with motorcycles and bicycles	73	55	....	18
Collisions with wagons	191	140	....	51
Boarding cars	123	64	....	59
Alighting from cars	241	177	....	64
Falling within cars	350	390	40	....
Derailment of cars	2	4	2	....
Miscellaneous	331	364	33	....
Total	4,627	4,298		
Decrease of 329 for year 1924.				
Personal injuries, all degrees:				
To passengers	644	711	67	....
To others	215	170	....	45
Total	859	881		
Increase of 22 for year 1924.				
Fatal accidents:				
To passengers	1	Nil	....	1
To others	9	11	2	....
Total	10	11		
Increase of 1 for year 1924.				

HAMILTON

	1923	1924	Increase	Decrease
Collisions with cars	Nil	Nil	....	....
Collisions with autos	521	385	....	136
Collisions with motorcycles and bicycles	5	2	....	3
Collisions with wagons	32	22	....	10
Boarding cars	18	14	....	4
Alighting from cars	27	31	4	....
Derailment of cars	....	....	....	....
Miscellaneous	15	12	....	3
Total	618	466		
Decrease of 152 for year 1924.				
Personal injuries, all degrees:				
To passengers	49	49	....	....
To others	20	7	....	13
Total	69	56		
Decrease of 13 for year 1924.				
Fatal accidents:				
To passengers	....	....	....	....
To others	....	....	....	....
Total	....	....	....	....

LONDON

	1923	1924	Increase	Decrease
Collisions with cars	11	7	....	4
Collisions with autos	449	339	....	110
Collisions with motorcycles and bicycles	12	7	....	5
Collisions with wagons	34	23	....	11
Boarding cars	12	11	....	1
Alighting from cars	65	39	....	26
Derailment of cars	1	....	....	1
Miscellaneous	76	41	....	35
Total	660	467		
Decrease of 193 for 1924.				
Personal injuries, all degrees:				
To passengers	43	34	....	9
To others	43	25	....	18
Total	86	59		
Decrease of 27 for 1924.				
Fatal accidents:				
To passengers	0	0	....	....
To others	1	1	....	....
Total	1	1	....	....

INDEX TO RAILWAY LEGISLATION

List No. 2.

The following index has been made with the object of continuing in chronological order all the legislation passed by both Dominion and Provincial governments since 1867, affecting railways situated wholly or partially within the Province of Ontario.

"List No. 2" was commenced on page 272 of our Ninth Annual Report (1914), and is continued in the following list up to and inclusive of 1924.

	Cap.	Year
Algoma Central and Hudson Bay Railway Company:		
Dominion Statute	32	1916
Act respecting.		
Belleville–Prince Edward Bridge Company:		
Dominion Statute	95	1899
Act to incorporate.		
Dominion Statute	85	1908
Act respecting.		
Dominion Statute	60	1918
Act respecting.		
Berlin and Waterloo Street Railway:		
Ontario Statute	58	1907
See Act respecting Town of Berlin.		
Brantford, City of:		
Ontario Statute	112	1920
Act respecting.		
Bruce Mines and Algoma Railway Company:		
Ontario Statute	25	1919
Act respecting.		
See Lake Huron & Northern Ontario Railway Company.		

	Cap.	Year
BRUNNER MOND CANADA, LIMITED: (Incorporated by Letters Patent under R.S.C. 1906, Chap. 79.)		
Ontario Statute	116	1919
Act respecting.		
BUFFALO AND FORT ERIE FERRY AND RAILWAY COMPANY:		
Ontario Statute	101	1916
Act to incorporate.		
BUFFALO AND FORT ERIE PUBLIC BRIDGE COMPANY:		
Dominion Statute	74	1923
Act to incorporate.		
CAMPBELLFORD, LAKE ONTARIO AND WESTERN RAILWAY CO.:		
Ontario Statute	93	1917
See Act respecting Town of Trenton.		
CANADA SOUTHERN RAILWAY COMPANY:		
Dominion Statute	77	1924
Act respecting.		
(NOTE: Leased to Michigan Central Railway Co.).		
CANADIAN NATIONAL RAILWAY COMPANY:		
Dominion Statute	13	1919
See Canadian Northern Railways.		
Dominion Statute	6	1923
Act respecting.		
Dominion Statute	7	1923
Act respecting.		
Dominion Statute	37	1923
Act to amend.		
Ontario Statute	75	1923
See Act respecting the Municipality of Neebing.		
Ontario Statute	80	1923
See Act respecting City of Port Arthur.		
Ontario Statute	95	1923
See Act respecting City of Toronto.		
Dominion Statute	39	1920
Act respecting.		
CANADIAN NATIONAL RAILWAYS ACT:		
Dominion Statute	13	1924
An Act to amend.		
CANADIAN NATIONAL ELECTRIC RAILWAYS:		
Ontario Statute	119	1924
See Act respecting City of St. Catharines.		
Ontario Statute	108	1924
See Act respecting City of Niagara Falls.		
CANADIAN NIAGARA BRIDGE COMPANY:		
Dominion Statute	62	1918
Act to incorporate.		
(Declared to be a work for the general advantage of Canada.)		
Dominion Statute	78	1919
Act respecting.		
Dominion Statute	76	1923
Act respecting.		
CANADIAN NORTHERN RAILWAY COMPANY:		
Dominion Statute	24	1917
An Act providing for Capital Stock by Government.		
Ontario Statute	85	1917
See Act City of Port Arthur.		
Ontario Statute	80	1923
See Act respecting City of Port Arthur.		
CANADIAN NORTHERN ONTARIO RAILWAY COMPANY:		
Dominion Statute	37	1916
Act respecting.		
Ontario Statute	93	1917
(See Act Town of Trenton).		
Ontario Statute	53	1918
Act respecting.		

	Cap.	Year
CANADIAN NORTHERN ONTARIO RAILWAY COMPANY, CANADIAN NORTHERN RAILWAY COMPANY AND CANADIAN PACIFIC RAILWAY COMPANY:		
Dominion Statute	38	1916
Act to confirm certain agreements.		
CANADIAN PACIFIC RAILWAY COMPANY:		
Ontario Statute	85	1917
See Act City of Port Arthur.		
Dominion Statute	80	1919
See Act respecting Air Craft, etc..		
Dominion Statute	56	1921
Act respecting.		
Ontario Statute	80	1923
See Act respecting City of Port Arthur.		
Ontario Statute	123	1924
See Act respecting Township of Schreiber.		
CANADIAN TRANSIT COMPANY:		
Dominion Statute	57	1921
Act to incorporate.		
Dominion Statute	56	1922
Act respecting.		
CENTRAL RAILWAY COMPANY OF CANADA:		
Dominion Statute	82	1919
Act respecting.		
Dominion Statute	58	1921
Act respecting.		
DETROIT RIVER TUNNEL COMPANY:		
Dominion Statute	79	1924
Act respecting.		
ENGLISH VALLEY AND HUDSON BAY RAILWAY COMPANY:		
Dominion Statute	43	1917
Act to incorporate.		
ESSEX TERMINAL RAILWAY COMPANY:		
Ontario Statute	102	1916
Act respecting.		
Dominion Statute	51	1917
Act respecting.		
Dominion Statute	84	1919
Act respecting.		
Dominion Statute	60	1921
Act respecting.		
Dominion Statute	77	1923
Act respecting.		
FECUNIS, LIMITED:		
Ontario Statute	137	1921
Act to incorporate. (Section 8, Tramways).		
Ontario Statute	108	1923
Act respecting.		
FORT WILLIAM MUNICIPAL RAILWAY:		
Ontario Statute	27	1917
See Section 71.		
Ontario Statute	60	1918
See Act City of Fort William.		
Ontario Statute	119	1921
See Act respecting City of Port Arthur and Fort William.		
GANANOQUE AND ARNPRIOR RAILWAY COMPANY:		
Ontario Statute	103	1916
Act to amend.		
GEORGIAN BAY AND SEABOARD RAILWAY COMPANY:		
Ontario Statute	86	1917
See Act to incorporate Port McNicoll.		

	Cap.	Year
GRAND RIVER RAILWAY COMPANY:		
Dominion Statute	85	1919
Amended to remove Provincial Jurisdiction.		
GRAND TRUNK RAILWAY:		
Ontario Statute	110	1921
See Act respecting Town of Midland.		
Dominion Statute	9	1921
An Act respecting Arbitration.		
GRAND TRUNK RAILWAY SYSTEM:		
Dominion Statute	17	1919
An Act respecting the acquisition by His Majesty of the Grand Trunk Railway System (Second Session Vols. I and II).		
An Act to confirm the Agreement dated the 8th day of March, 1920, between His Majesty, the King, and the Grand Trunk Railway Company of Canada, for the acquisition by His Majesty of the capital stock of the said Grand Trunk Railway Company, except the four per cent. Guaranteed Stock.		
Dominion Statute	13	1920
NOTE: See in Schedule to this Act the names of all the companies controlled by the Grand Trunk Railway Company, also companies controlled by subsidiary companies of the Grand Trunk.		
GRAND TRUNK PACIFIC RAILWAY SYSTEM:		
Dominion Statute	22	1919
Act confirming orders of Governor-General in Council.		
Dominion Statute	16	1919
An Act to amend an Act to confirm two Orders of the Governor-General in Council respecting the Grand Trunk Pacific Railway System (Second Session Vols. I and II).		
GRAND VALLEY RAILWAY:		
Dominion Statute	42	1916
See Act to enable Brantford to own railway.		
GUELPH RADIAL RAILWAY COMPANY:		
Ontario Statute	22	1921
See Act to confirm a certain agreement between the Hydro-Electric Power Commission of Ontario, and the Corporation of the City of Guelph.		
Ontario Statute	105	1921
Railway fares—See Act respecting City of Guelph.		
Ontario Statute	40	1923
An Act to amend the Guelph Railway Act, 1921.		
HAMILTON AND DUNDAS STREET RAILWAY COMPANY:		
Ontario Statute	63	1918
See Act respecting City of Hamilton.		
INTERNATIONAL BRIDGE AND TUNNEL COMPANY:		
Dominion Statute	108	1905
Act to incorporate.		
Dominion Statute	63	1918
Act respecting.		
INTERNATIONAL TRANSIT COMPANY:		
Ontario Statute	71	1901
See Act respecting Town of Sault Ste. Marie.		
INTERPROVINCIAL AND JAMES BAY RAILWAY COMPANY:		
Dominion Statute	48	1912
(Section 6).		
Dominion Statute	53	1917
Act respecting.		
Dominion Statute	59	1922
Act respecting.		
KENORA AND ENGLISH RIVER RAILWAY COMPANY:		
Dominion Statute	44	1912
Act to incorporate.		
KINGSTON, PORTSMOUTH & CATARAQUI RAILWAY COMPANY:		
Ontario Statute	70	1923
See an Act respecting the City of Kingston and the Village of Portsmouth.		

	Cap.	Year
LAKE ERIE AND DETROIT RIVER RAILWAY:		
Ontario Statute	83	1923
See an Act respecting Village of Port Stanley.		
LAKE HURON AND NORTHERN ONTARIO RAILWAY COMPANY:		
Ontario Statute	25	1919
Sections 41, subsections (2) and (3)—Extension of Time.		
Ontario Statute	131	1921
Act respecting.		
LONDON STREET RAILWAY COMPANY:		
Ontario Statute	27	1917
See Section 31, Statute Law Amendment Act.		
Ontario Statute	141	1922
Act respecting.		
Ontario Statute	141	1924
Act respecting.		
LONDON AND LAKE ERIE RAILWAY AND TRANSPORTATION COMPANY:		
Dominion Statute	63	1921
Act respecting.		
LONDON AND PORT STANLEY RAILWAY COMPANY:		
Dominion Statute	59	1888
See an Act to confirm a certain Agreement made between the Grand Trunk Railway Company of Canada, the Canada Southern Railway Company, and the London and Port Stanley Railway Company.		
Dominion Statute	60	1888
An Act to confirm a certain agreement made between the London and Southeastern Railway Company and the Canada Southern Railway Company.		
Dominion Statute	38	1897
See an Act respecting the Canada Southern Railway Company.		
Ontario Statute	75	1917
See Act of City of London.		
Ontario Statute	65	1918
See Act of City of London.		
Dominion Statute	89	1919
See Act respecting increase in fares.		
Ontario Statute	109	1921
See Act respecting City of London, Sec. 5, Locomotive, etc..		
Ontario Statute	83	1923
See Act respecting Village of Port Stanley.		
LONDON AND SOUTHEASTERN RAILWAY COMPANY:		
Ontario Statute	96	1919
See Act City of London.		
MICHIGAN CENTRAL RAILWAY COMPANY:		
Ontario Statute	59	1918
Act respecting County of Essex.		
MIDLAND SIMCOE RAILWAY COMPANY:		
Ontario Statute	142	1924
Act respecting.		
MORRISBURG AND OTTAWA ELECTRIC RAILWAY COMPANY:		
Ontario Statute	117	1919
Extension of time.		
MOUNT MCKAY AND KAKABEKA FALLS RAILWAY COMPANY:		
Ontario Statute	104	1916
Act respecting.		
Ontario Statute	151	1920
Act respecting—Extension of time.		
Ontario Statute	142	1922
Act respecting.		
NIAGARA FALLS SUSPENSION BRIDGE COMPANY:		
Ontario Statute	97	1919
See Act City of Niagara Falls.		
NIAGARA PENINSULA BRIDGE COMPANY:		
Dominion Statute	88	1882
Act to incorporate.		

	Cap.	Year
NIAGARA RIVER BRIDGE COMPANY:		
Dominion Statute	63	1922
Act respecting (See Niagara Peninsula Bridge Company).		
NIAGARA, ST. CATHARINES AND TORONTO RAILWAY COMPANY:		
Dominion Statute	46	1916
Act respecting.		
NIPISSING CENTRAL RAILWAY COMPANY:		
Dominion Statute	56	1918
Act respecting.		
Dominion Statute	80	1923
Act respecting.		
NORTHERN LIGHT RAILWAY COMPANY:		
Ontario Statute	152	1920
Act to incorporate.		
Ontario Statute	132	1921
Act respecting.		
ONTARIO NIAGARA CONNECTING BRIDGE COMPANY:		
Dominion Statute	31	1916
Act to incorporate.		
(Declared to be a work for the general advantage of Canada.)		
ONTARIO WEST SHORE RAILWAY COMPANY:		
Ontario Statute	118	1919
Act respecting.		
Ontario Statute	153	1920
An Act to correct an error in an Act respecting.		
OSHAWA RAILWAY COMPANY:		
Dominion Statute	68	1921
Act respecting.		
Ontario Statute	113	1924
See Act respecting City of Oshawa.		
OTTAWA, CITY OF; OTTAWA ELECTRIC RAILWAY COMPANY:		
Ontario Statute	132	1920
An Act to enable the Corporation to acquire, construct, extend and operate a local transportation system, and to provide for the management of the same.		
OTTAWA ELECTRIC RAILWAY COMPANY:		
Ontario Statute	143	1924
Act respecting.		
Dominion Statute	84	1924
An Act to confirm an agreement between the Ottawa Electric Railway Company, and the City of Ottawa.		
OTTAWA AND NEW YORK RAILWAY COMPANY:		
Ontario Statute	116	1920
Act respecting the railway and the Township of Cornwall.		
OTTAWA, NORTHERN AND WESTERN RAILWAY COMPANY:		
Dominion Statute	91	1919
Act respecting.		
Dominion Statute	69	1921
Act respecting.		
Dominion Statute	81	1923
Act respecting.		
OTTAWA STREET INCLINE RAILWAY COMPANY OF HAMILTON:		
Ontario Statute	143	1922
Act to incorporate.		
PETERBOROUGH RADIAL RAILWAY COMPANY:		
Ontario Statute	83	1917
See Act City of Peterborough.		
PORCUPINE RAND BELT ELECTRIC RAILWAY COMPANY:		
Ontario Statute	154	1920
Act respecting—Extension of time.		

	Cap.	Year
PORT ARTHUR MUNICIPAL RAILWAY:		
Ontario Statute	27	1917
See Section 71, Statute Law Amendment Act.		
Ontario Statute	119	1921
See Act respecting the Cities of Port Arthur and Fort William.		
SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY COMPANY:		
Ontario Statute	144	1922
Act respecting.		
SAULT STE. MARIE ELECTRIC LIGHT AND TRANSIT COMPANY: (Name changed to THE INTERNATIONAL TRANSIT CO.)		
Ontario Statute	71	1901
See Act respecting the Town of Sault Ste. Marie.		
SCHOMBERG AND AURORA RAILWAY COMPANY:		
Ontario Statute	24	1921
See an Act to authorize the purchase and operation of certain radial railways by the Hydro-Electric Power Commission of Ontario on behalf of the City of Toronto.		
SIMCOE RAILWAY AND POWER COMPANY:		
Ontario Statute	20	1917
See Schedule "B", Power Commission Act.		
SUDBURY–COPPER CLIFF SUBURBAN ELECTRIC RAILWAY:		
Ontario Statute	94	1916
See Act Town of Sudbury.		
Ontario Statute	119	1919
Act respecting.		
TEMISKAMING AND NORTHERN ONTARIO RAILWAY:		
Ontario Statute	25	1919
Section 5, Salary Increase.		
Ontario Statute	17	1920
An Act to provide for an extension.		
THOUSAND ISLANDS RAILWAY COMPANY:		
Dominion Statute	72	1921
Act respecting.		
TORONTO, CITY OF:		
Dominion Statute	144	1920
Act respecting—to establish a transportation commission.		
TORONTO, HAMILTON & BUFFALO RAILWAY:		
Dominion Statute	50	1916
Act respecting.		
Dominion Statute	58	1917
Act respecting.		
Dominion Statute	57	1918
NOTE: Hamilton and Dundas Railway Agreement.		
TORONTO, NIAGARA AND WESTERN RAILWAY COMPANY:		
Dominion Statute	51	1916
Act respecting.		
Dominion Statute	58	1918
Act respecting.		
TORONTO RAILWAY COMPANY:		
Ontario Statute	92	1917
See Act respecting City of Toronto 200 Cars—See Schedule "G."		
TORONTO SUBURBAN RAILWAY COMPANY:		
Ontario Statute	92	1917
Act respecting City of Toronto.		
Ontario Statute	84	1918
See Act respecting City of Toronto.		
Ontario Statute	110	1919
Section 3 and Schedule "D" (1), Act respecting City of Toronto.		
Ontario Statute	35	1922
An Act to authorize the purchase and operation of the Toronto Suburban Railway Company by The Hydro-Electric Power Commission of Ontario on behalf of the City of Toronto.		
Ontario Statute	95	1923
See Act respecting City of Toronto.		

	Cap.	Year
TORONTO TERMINALS RAILWAY COMPANY:		
Dominion Statute	70	1924
Act respecting.		
TORONTO TRANSPORTATION COMMISSION:		
Ontario Statute	133	1922
Act respecting City of Toronto.		
Ontario Statute	139	1922
See Act respecting Township of York.		
TORONTO AND NORTHWESTERN RAILWAY COMPANY:		
(Formerly Huron and Ontario Railway Company).		
Dominion Statute	135	1913
TORONTO AND YORK RADIAL RAILWAY COMPANY:		
Ontario Statute	126	1912
See Act respecting City of Toronto.		
Ontario Statute	92	1917
Act respecting City of Toronto.		
Ontario Statute	23	1921
See Act respecting the purchase by the City of Toronto of the assets of certain companies.		
Ontario Statute	24	1921
See Act to authorize the purchase and operation of certain radial railways by The Hydro-Electric Power Commission of Ontario on behalf of the City of Toronto.		
TOWNSHIP OF YORK RAILWAYS:		
Ontario Statute	139	1922
See Act respecting.		
WATERLOO-WELLINGTON RAILWAY COMPANY:		
Ontario Statute	115	1919
(Formerly Berlin & Northern Railway—name changed).		
Ontario Statute	145	1922
(re railway fares, etc.).		
NOTE: Purchased by the City of Kitchener.		

TABLES A, B AND C.

The following tables, A, B and C, have been compiled for the purpose of showing the various subsidies voted from July 1st, 1867, by the Province of Ontario to railways constructed wholly or partly within the Province.

Table A sets forth the subsidies voted by the Province of Ontario to the various railways therein mentioned. These subsidies, however, have not all been paid in cash. In some cases the railways have received the whole amount in cash, others have received the whole amount in certificates of the Province of Ontario, bearing interest at the rate of 3½ per cent. per annum, while others have received payment partly in cash and partly in certificates of Ontario with interest at 3½ per cent.

Table B shows what cash the railways have received, the amounts which the Province has paid in respect of the certificates, and the amount of outstanding certificates. The amounts set forth in the total column in Table B represent the amounts paid to railway companies respectively, together with the amount of the unredeemed certificates issued to such railways. The difference between the gross sum of the subsidies voted and the total amount paid by the Government to railways and the unpaid liability due by the Government in respect of such subsidies is made up of the interest at the rate of 3½ per cent. for the term of years over which the payment of the Government is distributed.

Table C is a statement showing amounts payable annually for certificates issued by the Treasurer of the Province for "Aid to Railways" and annuities.

NOTE: These following statements are taken from the Public Accounts for the year ending 31st October, 1924.

Table A

Aid to Railways from Confederation to October 31st, 1924

Name of Railway	Miles	Rate	Subsidy Voted
		$ c.	$ c.
Algoma Eastern	53.	5,000 00	265,000 00
Algoma Central & Hudson Bay	99.81	2,000 00	199,620 00
Bay of Quinte	28.45	3,000 00	85,350 00
Belleville and North Hastings	22.	3,000 00	66,000 00
Brantford, Norfolk & Port Burwell	33.27	2,000 00	66,540 00
Bruce Mines & Algoma	17.	3,000 00	51,000 00
Canada Central	20.029	2,650 00	53,000 00
" "	20.	2,650 00	53,000 00
" "	7.531	2,650 00	19,957 15
Canada Southern	62.901	2,000 00	125,802 00
Central Counties	31.	2,000 00	62,000 00
" "	7.	1,200 00	8,400 00
Central Ontario	50.500	3,000 00	151,500 00
Cobourg, Peterboro' & Marmora	9.37	2,000 00	18,740 00
Credit Valley	153.061	3,000 00	459,183 00
Canada Atlantic	65.72	4,000 00	262,880 00
Erie & Huron	40.556	2,000 00	81,112 00
Grand Trunk, Georgian Bay & Lake Erie	79.3	2,000 00	158,600 00
Grand Junction	45.86	3,000 00	137,580 00
" "	20.	2,000 00	40,000 00
G.T.R. Assignee of Magnetawan River Railway	1.86	cash	10,000 00
Grand Trunk Pacific	188.16	2,000 00	376,320 00
Hamilton and North Western	95.464	2,500 00	238,660 00
" " "	48.052	3,000 00	144,156 00
Hamilton & Lake Erie	33.48	2,000 00	66,960 00
Huntsville & Lake of Bays	1.50	cash	10,000 00
Irondale, Bancroft & Ottawa	44.77	3,000 00	134,310 00
James Bay	3.70	4,000 00	14,800 00
Kingston & Pembroke	20.	2,000 00	40,000 00
" "	15.	2,650 00	39,750 00
" "	11.58	3,250 00	37,635 00
" "	13.74	7,000 00	96,180 00
" "	28.42	8,000 00	237,360 00
Lake Simcoe Junction	26.50	2,000 00	53,000 00
Lindsay, Bobcaygeon & Pontypool	17.53	3,000 00	52,590 00
London, Huron & Bruce	69.146	2,000 00	138,292 00
Montreal & Ottawa	50.	2,000 00	100,000 00
Midland	20.40	2,000 00	40,800 00
"	19.60	2,250 00	44,100 00
"	14.53	4,000 00	58,120 00
North Simcoe	33.343	2,500 00	83,357 50
Northern Extension	42.72	2,000 00	85,440 00
" "	27.68	4,000 00	110,720 00
Ontario & Rainy River	268.20	4,000 00	1,072,800 00
Ontario, Belmont & Northern	9.57	2,000 00	19,140 00
Ottawa, Arnprior & Parry Sound	149.43	3,000 00	448,290 00
Pembroke Southern	18.50	3,000 00	55,500 00
Prince Arthur's Landing	5.995	2,000 00	11,990 00
Prince Edward County	32.	2,500 00	80,000 00
Port Dover & Lake Huron	63.	2,000 00	126,000 00
Port Arthur, Duluth & Western	80.	3,000 00	240,000 00
Parry Sound Colonization	47.75	3,000 00	143,250 00
Stratford & Lake Huron	27.5	2,000 00	55,000 00
Toronto, Grey & Bruce	73.52	3,000 00	220,560 00
" "	77.62	2,000 00	155,240 00
Toronto & Nipissing	33.439	2,000 00	66,878 00
" "	12.778	3,000 00	38,334 00
Tillsonburg, Lake Erie & Pacific	19.108	2,000 00	38,216 00
Thessalon & Northern	1.929	cash	5,000 00
Victoria	33.442	4,000 00	133,768 00
"	22.310	8,000 00	178,480 00
Wellington, Grey & Bruce	120.638	2,000 00	241,276 00
Whitby, Port Perry & Lindsay	45.745	2,000 00	91,490 00
Ottawa & New York (International Bridge)	.....	certificates	35,000 00
Dominion Bridge Co. (Interprovincial Bridge)	.....	certificates	50,000 00
Totals	2,836.007	.....	8,084,026 65

Table B
Aid to Railways up to 31st October, 1924, from Confederation

Name of Railway.	Miles	Cash Payments	Certificates paid	Certificates outstanding	Total
		$ c.	$ c.	$ c.	$ c.
Algoma Eastern	53.000	265,000 00	.....	.....	265,000 00
Algoma Central & Hudson's Bay	99.810	199,620 00	.....	.....	199,620 00
Belleville and North Hastings	22.000	.....	114,206 40	.....	114,206 40
Brantford, Norfolk and Port Burwell	33.270	.....	129,353 60	.....	129,353 60
Bruce Mines and Algoma	17.000	1,920 00	50,685 71	40,879 89	93,485 60
Bay of Quinte	28.450	.....	81,604 76	77,624 04	159,228 80
Canada Central	47.560	125,957 15	.....	.....	125,957 15
Canada Southern	62.901	.....	244,559 20	.....	244,559 20
Central Counties	38.000	68,747 26	.....	.....	68,747 26
Central Ontario	50.500	73,500 00	79,545 46	65,972 94	219,018 40
Cobourg, Peterboro' and Marmora	9.370	18,740 00	.....	.....	18,740 00
Credit Valley	153.061	18,702 00	788,648 85	.....	807,350 85
Canada Atlantic	65.720	.....	454,887 60	.....	454,887 60
Erie and Huron	40.556	1,634 47	122,200 40	.....	123,834 87
Grand Trunk, Georgian Bay and Lake Erie	79.300	1,580 00	229,866 00	.....	231,446 00
Grand Junction	65.860	40,000 00	238,067 60	.....	278,067 60
Grand Trunk Railway as Assignee of Magnetawan Railway	1.860	10,000 00	.....	.....	10,000 00
Grand Trunk Pacific	188.160	.....	274,664 50	427,425 90	702,090 40
Hamilton and North Western	143.516	.....	727,697 20	.....	727,697 20
Hamilton and Lake Erie	33.480	66,960 00	.....	.....	66,960 00
Huntsville and Lake of Bays	1.500	10,000 00	.....	.....	10,000 00
Irondale, Bancroft and Ottawa	44.770	.....	175,575 60	74,994 00	250,569 60
James Bay	3.700	.....	15,186 60	12,425 40	27,612 00
Kingston and Pembroke	88.740	213,522 50	393,423 20	.....	606,945 70
Lindsay, Bobcaygeon and Pontypool	17.530	.....	49,057 20	49,057 20	98,114 40
Lake Simcoe Junction	26.500	53,000 00	.....	.....	53,000 00
London, Huron and Bruce	69.146	.....	268,839 60	.....	268,839 60

Table B—Continued

Aid to Railways up to 31st October, 1924, from Confederation

Name of Railway	Miles	Cash Payments	Certificates paid	Certificates outstanding	Total
		$ c.	$ c.	$ c.	$ c.
Montreal and Ottawa	50.000	.....	124,062 40	62,497 60	186,560 00
Midland	54.530	65,227 50	149,284 40	.....	215,511 90
North Simcoe	33.343	.....	144,241 60	.....	144,241 60
Northern Extension	70.400	196,188 00	.....	.....	196,188 00
Ontario and Rainy River (Canadian Northern)	268.200	.....	1,163,574 90	837,841 10	2,001,416 00
Ontario, Belmont and Northern	9.570	.....	25,007 92	10,717 68	35,725 60
Ottawa, Arnprior and Parry Sound	149.430	.....	592,766 08	224,925 92	817,692 00
Pembroke Southern	18.500	.....	67,301 52	36,239 28	103,540 80
Prince Arthur's Landing	5.995	.....	20,747 20	.....	20,747 20
Prince Edward County	32.000	.....	155,520 00	.....	155,520 00
Port Dover and Lake Huron	63.000	126,000 00	.....	.....	126,000 00
Port Arthur, Duluth and Western (Canadian Northern)	80.000	15,571 54	372,886 80	74,857 20	463,315 54
Parry Sound Colonization	47.750	.....	205,804 83	61,442 37	267,247 20
Stratford and Lake Huron	27.500	55,000 00	.....	.....	55,000 00
Toronto, Grey and Bruce	151.140	285,182 00	176,182 40	.....	461,364 40
Toronto and Nipissing	46.217	105,212 00	.....	.....	105,212 00
Tillsonburg, Lake Erie and Pacific	19.108	.....	49,885 05	21,410 15	71,295 20
Thessalon and Northern	1.929	5,000 00	.....	.....	5,000 00
Victoria	55.752	33,442 00	503,875 20	.....	537,317 20
Wellington, Grey and Bruce	120.638	241,276 00	.....	.....	241,276 00
Whitby, Port Perry and Lindsay	45.745	40,000 00	89,790 40	.....	129,790 40
Ottawa and New York (International Bridge)	.....	.....	39,178 56	26,119 04	65,297 60
Dominion Bridge Co. (Interprovincial Bridge)	.....	.....	54,804 35	38,479 65	93,284 00
Totals	2,836.007	2,337,982 42	8,372,983 09	2,142,909 36	12,853,874 87

NOTE.—Present Value of Railway Certificates outstanding, October 31st, 1924, $1,629,219.32.

TABLE C.

RAILWAY AID AND ANNUITIES

Statement showing amounts payable annually for certificates issued by the Treasurer of the Province for Aid to Railways and Annuities

Year	Railway Aid Certificates	Annuities	Year	Railway Aid Certificates	Annuities
	$ c.	$ c.		$ c.	$ c.
1924.....	.....	48,100 00	Forward....	1,914,953 32	596,250 00
1925.....	139,112 54	82,500 00	1941.....	67,943 75	.....
1926.....	139,112 54	69,350 00	1942.....	31,818 40	.....
1927.....	139,112 54	56,950 00	1943.....	24,920 51	.....
1928.....	139,112 54	50,700 00	1944.....	22,695 08	.....
1929.....	139,112 54	50,700 00	1945.....	18,251 86	.....
1930.....	138,412 94	50,700 00	1946.....	18,251 86	.....
1931.....	134,914 94	43,700 00	1947.....	18,251 86	.....
1932.....	127,918 94	32,700 00	1948.....	18,251 86	.....
1933.....	125,120 54	28,700 00	1949	6,871 26	.....
1934.....	123,021 74	28,700 00	1950.....	699 60	.....
1935.....	111,128 54	24,700 00			
1936.....	105,090 01	16,700 00			
1937.....	94,459 80	9,200 00			
1938.....	90,961 80	2,850 00			
1939.....	86,122 35	.....			
1940.....	82,239 02	.....			
Forward.....	1,914,953 32	596,250 00	Totals...	2,142,909 36	596,250 00

Note.—Present value of Railway certificates, October 31st, 1924 (interest 1¾ per cent. half-yearly)..... 1,629,219 32

Present value of Annuities, October 31st, 1924 (interest 1¾ per cent. half-yearly)..... 508,648 60

FORMS

FORM THAT MAY BE USED IN CONNECTION WITH THE EXAMINATION OF MOTORMEN.

Name of City or Town.

.....192 .

Name of Railway.

This is to certify that, acting under The Ontario Railway Act, 1914, R.S.O., chapter 185, section 263, I have fully examined the.....who is.....years of age and.....feet.....inches high, weighs.....lbs., complexion....., as to his fitness as a motorman, that the said..... .....is of steady habits, and is in physical ability, intelligence and general knowledge of, and experience in, this work qualified to act as motorman on any electric motor car of said Company.

I have been duly appointed an examiner under the said Act, my appointment being dated .....

Name.....

Examiner.

FORM TO BE USED BY COMPANIES IN REPORTING ACCIDENTS.

ACCIDENTS: Regulations Under and in Pursuance of Sections 274 and 279 of "The Ontario Railway Act, 1914." R.S.O., Chapter 185.

ACCIDENTS.—Every company upon the happening of an accident shall give to the Ontario Railway and Municipal Board notice thereof in writing by delivering the same at the office of the Board in the City of Toronto or by mailing it, postage prepaid, in a registered letter addressed to the Board.

Such notice shall contain a statement signed by a duly authorized officer of such company, setting forth the information and particulars hereinafter mentioned.

Such statement shall be divided into paragraphs, each of which shall include and refer to one (or one group) only of the numbered particulars hereinafter mentioned, and the paragraph referring to each respective numbered particular shall bear the number corresponding to the number hereinafter given for each such particular.

The numbers of paragraphs and the particulars to which each shall refer as aforesaid, are as follows:—

1. Name or names of company or companies concerned in accident.
2. Numbers of train, engine, car or motor.
3. Date and time of accident.
4. Nature of accident.
5. Exact location.
6. Name in full, address and legal addition of each person injured or killed.
7. Age.
8. Married or single.
9. Passenger, employee or other.
10. If employee, length and nature of service with dates and periods of different occupations (if more than one).
11. If employee, character, experience, skill and fitness with respect to occupation at time of accident.
12. How engaged at time of accident, and how long on duty.
13. Cause of accident, how same occurred, with full particulars and details, and diagram if required.
14. Persons in charge, with full names, addresses and the particulars referred to in paragraphs 10, 11 and 12.
15. Result to person and particulars of injury.
16. Result to property, including amount of damage.
17. Names and addresses of all persons present at, or eye-witnesses of, the accident.
18. What investigation (if any), and result of same.
19. Verdict (if any).

The Board reserves the right to require such further and other details, particulars, maps, plans, profiles, documents, models and information or illustration of any kind as the nature of the accident and a full understanding thereof may suggest or require.

In pursuance of sections 274 and 279 of said Act, the Board declares that all such information so given in pursuance of this regulation shall be privileged.

Signature of Officer.

N.B.—Give name of officer who fills out this report.

REGULATIONS

REGULATION AS TO HEIGHT OF CAR STEPS.

Under and in pursuance of a certain order of the Board bearing date the 2nd day of June, A.D. 1909, The Ontario Railway and Municipal Board made the following regulations:

The steps on all cars hereafter constructed and used by The Toronto Railway Company and all other street and electric railways under the jurisdiction of this Board shall have steps conforming to the following regulations:

On closed single truck cars the height of the first step above the ground shall not be less than twelve nor more than fifteen inches.

On closed double truck cars the height of the first step above the ground shall not be less than fourteen nor more than sixteen inches.

On open single truck cars the height of the first step above the ground shall be not less than twelve nor more than fifteen inches, and the distance between the first and second steps and the second step and the floor of the car shall measure twelve inches and nine inches respectively.

On open double truck cars, the height of the first step above the ground shall be not less than fourteen nor more than sixteen inches, and the distance between the first and second steps and the second step and the floor of the car shall measure twelve inches and fourteen inches respectively.

REGULATION RE DRINKING WATER ON PASSENGER CARS.

Every Electric Railway Company in Ontario, subject to the jurisdiction of the Board, shall provide in each passenger car which runs 20 miles or more, a suitable receptacle for water with a cup or drinking utensil attached upon or near such receptacle, and shall keep such receptacle, while the car is in use, constantly supplied with cool drinking water for the use of passengers and the conductor and motorman in charge of such car.

This regulation shall not apply to street railways in towns or cities.

Dated at Toronto this 24th day of June, 1909.

(Sgd.) James Leitch,
Chairman.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) H. N. Kittson,
Commissioner.

SYNOPSIS, 1924 CAMPAIGN OF THE ONTARIO SAFETY LEAGUE.

During 1924, we distributed over one million pieces of literature to school children, motorists, street car men, manufacturers and others, relative to the prevention of fires and accidents, and asking their assistance to reduce these hazards.

1924 completes the eleventh year of the League's existence, during which time motion pictures, lantern slides and publications have been added to our Motion Picture Bureau and Library. These have been in constant circulation among our members, which has resulted in their being shown all over Ontario, to schools, clubs, boards of trade, chambers of commerce, industrial workers and the public generally.

As in 1923, the distribution of Safety Bulletins covered more than 600 cities, towns and villages throughout the Province.

In addition to these, signs dealing with the traffic hazard were displayed in prominent public places, such as railway stations, street cars, etc., etc.

The Safety Essay Prize Competition and the Drawing Contest were carried on with their usual successful results and a great deal of interest was stimulated thereby.

The usual Safety Show was held at the Canadian National Exhibition.

Detail of literature distributed:

49,150	Industrial Bulletins.
86,750	Traffic and Electric Railway Bulletins.
320,000	Motorists' Leaflets.
67,200	Special Bulletins.
122,000	School Bulletins.
182,000	Letters to Parents.
26,800	Sundry Circulars.
60,000	Special Blotters.
11,800	Calendars.
67,160	Safety Buttons.
10,000	Special Cards and Reports.

In addition to above:—

25,000 Safety Thimbles were distributed.

$300.00 in cash prizes was awarded in the Essay Contest.

$320.00 in cash prizes in the Cartoon Contest, and 1,027 School Traffic Signs erected.

ONTARIO SAFETY LEAGUE
189 Church Street - Toronto

PROVINCE OF ONTARIO.

Accidents for the Years 1923 and 1924.

Cause	1923		1924	
	Fatal	Non-Fatal	Fatal	Non-Fatal
Drowning	237	155	307	360
Automobiles, trucks, motor cycles	236	2,348	254	3,020
Falls	157	587	170	1,408
Railroad	117	204	115	154
Fires	80	155	68	264
Burns, scalds	67	100	69	179
Asphyxia	53	89	28	145
Horse vehicle	44	193	44	359
Gunshot	42	89	46	80
Struck by falling or flying objects	30	179	63	359
Machinery	29	165	27	296
Injured by animals	26	88	23	305
Street cars	25	81	17	76
Crushed	25	32	33	37
Poisoning	23	22	26	34
Electrocution	23	27	23	41
Explosion	22	83	16	128
Strangulation, suffocation, shock	14	5	20	3
Elevator	12	28	6	20
Septic poisoning	10	10	34	26
Bicycle	9	145	10	134
Cave-in	8	15	8	18
Struck, objects moving or stationary	4	35	7	42
Injured in collapses	4	15	2	5
Injured in athletic games, sports, etc	3	106	2	272
Aeroplane	3	2	2	4
Injured by farm implements	2	8	3	36
Exposure	2	2	.....	.....
Coasting, skating	1	32	6	103
Injured at work	1	21	2	59
Injured by cutting and piercing	1	13	2	73
Swallowed foreign object	1	9	2	12
Injured at play	1	8	.....	16
Fracture, sprain, etc	1	5	1	120
Hand and foot injury	.....	25	.....	203
Mine, quarries	.....	.....	28	28
Swimming, bathing, diving	.....	.....	4	17
Injured by compressed air	.....	.....	1	3
Motor launch	.....	.....	1	2
	1,313	5,081	1,470	8,441

CITY OF TORONTO.

ACCIDENTS FOR THE YEARS 1923 AND 1924.

Cause	1923		1924	
	Fatal	Non-Fatal	Fatal	Non-Fatal
Falls	67	118	58	180
Automobile, truck, motor cycle	54	547	48	509
Asphyxia	37	46	15	58
Burns, scalds	24	23	18	30
Street cars	10	42	6	25
Drowning	6	22	9	48
Electrocution	5	5	2	3
Elevator	5	13	3	4
Machinery	4	18	.....	16
Poisoning	4	7	4	8
Railroad	4	7	8	15
Strangulation, suffocation, shock	4	1	4	.....
Bicycles	2	37	2	37
Struck by falling or flying objects	2	35	1	24
Injured by animals	2	10	.....	27
Septic poisoning	2	2	1	1
Fracture, sprain, etc	2	.....	.....	7
Fires	1	41	4	74
Horse vehicle	1	31	4	27
Crushed	1	8	2	3
Gunshot	1	3	1	4
Injured by cutting and piercing	1	2	1	3
Injured in athletic games, sports, etc	.....	15	1	32
Explosion	.....	13	1	10
Coasting, skating	.....	11	2	27
Hand and foot injury	.....	4	.....	4
Injured at work	.....	2	.....	3
Cave-in	.....	2	3	4
Swallowed foreign object	.....	.....	1	3
Bathing, diving	.....	.....	1	1
Struck, object moving or stationary	.....	.....	.....	4
Injured by compressed air	.....	.....	.....	3
Injured in collapses	.....	.....	.....	1
Injured at play	.....	.....	.....	1
	239	1,065	200	1,196

ANALYSIS OF GROSS EARNINGS AND MISCELLANEOUS INCOME FOR YEAR ENDING DECEMBER 31, 1924.

Name of Railway	From Passengers	From Mail	From Express, Parcels and Newspapers	From Freight	From Rental of track, buildings and other prop'ty	From Advertising	From other Miscellaneous Sources	Total
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Buffalo & Fort Erie Ferry & Ry. Co.	21,109 28	.....	.....	.....	.....	.....	.....	21,109 28
Cornwall Street	29,806 00	1,400 00	.....	38,144 44	300 00	351 50	1,233 31	71,235 25
Fort William	189,450 68	850 00	.....	4,510 89	1,112 48	.....	7,688 17	203,612 22
Guelph Radial Railway	70,745 83	.....	.....	2,725 83	.....	480 00	4,775 46	78,727 12
Hamilton & Barton Incline	See statement							
Hamilton Street	1,002,831 92	.....	.....	.....	3,769 90	2,518 57	193 00	1,009,313 39
Hamilton and Mountain Park	See statement							
Hamilton and Dundas	*	8 05	1 52	.....	1,777 45	47 05	6,105 51	7,939 58
Hamilton, Grimsby and Beamsville	118,888 83	750 00	4,291 91	26,849 52	12,580 26	408 34	567 05	164,335 91
Huntsville and Lake of Bays (steam)	2,214 00	35 00	4,024 23	.....	.....	40 00	4,933 77	11,247 00
International Transit	61,393 51	400 00	.....	.....	.....	390 00	284 99	62,468 50
Kingston, Portsmouth & Cataraqui	57,953 48	.....	.....	.....	1,315 88	475 00	2,655 67	62,400 23
Kitchener and Waterloo	105,668 47	3,484 52	217 20	.....	2,312 89	944 00	683 12	113,310 20
Lake Huron and Northern Ontario (steam)	Not operating	now.						
London Street	658,477 23	2,695 00	.....	.....	217 00	3,776 23	136 69	665,302 15
Midland and Simcoe	Operated for s	witching purp	oses only.					
Mount McKay and Kakabeka Falls	.....	.....	.....	.....	.....	.....	20,363 34	20,363 34
Niagara Falls Park and River	183,494 94	555 01	64 90	806 62 (switching)	74 70	766 96	24,891 60	210,654 73
Port Arthur Civic	192,499 87	.....	.....	.....	111 71	1,223 04	3,360 69	197,195 31
Sandwich, Windsor & Amherstburg	720,306 25	3,177 73	2,500 16	41,136 36	899 67	4,550 03	8,178 00	780,748 20
Sarnia Street	59,044 18	2,372 00	3,311 90	10,044 34	1,010 00	400 00	3,494 90	79,677 32
St. Thomas Civic	22,949 32	.....	.....	.....	.....	361 00	417 90	23,728 22
Sudbury-Copper Cliff Suburban	47,128 59	.....	461 05	.....	8 00	.....	6 34	47,603 98
Thurlow (steam)	55,095 00	.....	.....	.....	.....	.....	2,871 32	57,966 32
Toronto and York Radial	613,835 62	6,453 50	289 80	118,952 20	16,581 08	4,078 51	947 07	761,137 78
Toronto Transportation Commission	11,422,689 52	.....	.....	.....	74,726 35	158,290 78	53,988 63	11,707,695 28
Waterloo-Wellington	City of Kitchener took over Waterloo-Wellington Ry. and has operated it since October 3rd, 1923, and the charter of the Waterloo-Wellington Ry. has been duly surrendered by order of the Provincial Secretary's Department of Ontario.							

*Ceased operations.

TABULATION OF CAR MILES RUN, PASSENGERS CARRIED, ACCIDENTS, ETC.

Name of Railway	Length of track owned, miles	Length of switches and sidings, miles	Passenger car miles run	Passengers carried	Passengers carried per mile of main track operated	Accidents		Number of men employed	Passenger Cars			Other Service Cars							Loading cranes	Miscell.		Cost of railway construction, equipment, land and buildings per mile of track owned
						Killed	Injured		Enclosed Cars	Open Cars	Trailers	Baggage and mail	Cattle and box	Platform	Coal dump	Tool	Snow sweepers	Snow plows		Locomotives	Ferry boats	
Buffalo & Fort Erie Ferry & Ry. Co.	Not reported.																					
Cornwall Street	4.25	2.75	224,500	634,190	158,547	....	2	.....	8	....	.....	....	....	....	....	....	1	....	....	....	....	39,670 49
Fort William	21.497	3.933	753,375	3,061,904	120,404	....	2	.....	18	1	5	....	....	....	....	....	1	1	....	....	....	51,258 35
Guelph Radial Ry.	8.490	1.560	293,722	1,282,655	151,078	....	2	30	8	....	.....	....	....	....	....	....	1	....	....	....	....	40,886 02
Hamilton & Barton Incline	See statement.																					
Hamilton Street	33.7	.....	2,905,882	20,500,089	608,311	....	40	417	78	19	14	....	....	....	....	1	4	....	....	....	....	73,802 99
Hamilton & Mountain Park	See statement.																					
Hamilton & Dundas	6.048	1.6	No record.	.....	.....	....	.....	.....	1	....	.....	....	....	....	....	....	....	....	....	....	....	29,228 53
Hamilton, Grimsby & Beamsville	22.6	3.6	344,184	899,367	34,327	....	7	66	8	2	.....	4	....	....	....	....	....	....	....	....	....	19,051 48
Huntsville & Lake of Bays (steam)	1.438	.312	††	14,727	.....	....	.....	6	....	....	4	1	....	5	....	....	....	....	....	....	....	17,903 55
International Transit	4.97	.09	224,275	1,224,196	.....	....	.....	18	....	....	.....	....	....	....	....	....	....	....	....	....	....	73,545 55
Kingston, Portsmouth & Cataraqui	8.	.....	266,103	1,010,560	126.320	....	1	19	11	9	.....	....	....	....	....	1	2	1	....	....	....	Not reported
Kitchener & Waterloo	7.16	.84	295,109	2,659,862	371,489	....	1	34	15	2	5	....	....	....	1	....	1	....	....	....	....	56,182 10
Lake Huron & Northern Ontario	Not operating now.																					
London Street	36.10	.....	2,087,746	13,299,634	.....	1	105	.....	53	9	.....	....	....	....	....	....	....	....	....	....	....	47,742 47
Midland & Simcoe	Operated for switching purposes only.																					
Mount McKay and Kakabeka Falls	5.	1.5	.....	.....	.....	....	.....	10	....	....	.....	....	....	....	....	....	....	....	....	....	....	53,400 21
Niagara Falls Park & River	23.116	1.370	329,971	1,412,355	57,680	....	23	44	8	19	.....	2	....	2	....	....	....	1	....	....	....	Not reported
Port Arthur Civic	18.53	1.04	625,369	3,134,037	.....	1	3	48	18	3	.....	1	....	....	....	....	....	2	....	....	....	29,675 00
Sandwich, Windsor & Amherstburg	24.034	2.567	2,140,769	12,051,314	501,428	3	129	274	57	6	.....	3	....	4	....	7	....	1	....	....	....	73,944 16
Sarnia Street	8.25	1.	205,694	1,057,151	.....	....	.....	30	....	....	.....	....	....	....	....	....	....	....	....	....	....	28,585 47
St. Thomas Civic	6.5	095	††	439,764	.....	....	3	17	8	....	4	....	....	....	....	....	....	1	....	....	....	11,971 19
Sudbury-Copper Cliff Suburban	7.9	.....	107,822	578,961	72,730	....	.....	11	....	4	.....	....	....	....	....	....	....	1	....	....	....	40,648 41
Thurlow (steam)	2.671	2.766	.....	.....	.....	....	.....	20	....	....	.....	....	4	2	19	....	....	....	....	3	....	6,948 51
Toronto & York Radial	81.255	14.163	1,875,771	6,246,591	78,141	2	102	355	69	....	5	5	....	41	....	12	....	4	....	....	....	31,616 17
Toronto Transportation Commission	192.098	30.276	26,323,136	185,203,698	.....	12	1,300	.....	779	....	226	....	....	....	....	....	25	3	....	....	....	204,729 98
Waterloo-Wellington	City of Kitchener took over Waterloo-Wellington Railway and has operated it since October 3rd, 1923, and the charter of the Waterloo-Wellington Ry. has been duly surrendered by order of the Provincial Secretary's Department of Ontario.																					

††Car miles not reported.

TABULATION OF COMPARISON WITH PREVIOUS YEAR AS TO CAR MILES RUN, PASSENGERS CARRIED.
For Year Ending December 31, 1924.

Name of Railway	Length of Track		Car Miles Run		Passengers Carried		Accidents				Net Earnings	
							Killed		Injured			
	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease
Buffalo & Fort Erie Ferry & Ry. Co.	Not reported.											
Cornwall Street	.50	.....	33,500	.....	.....	17,719	.....	.....	2	.....	2,187 76	.....
Fort William	No change.		105,027	.....	98,850	.....	.....	.....	2	.....	a4,631 06	.....
Guelph Radial Railway	No change.		.....	6,810	.....	43,813	.....	.....	.....	14	.....	b8,026 62
Hamilton & Barton Incline	See statement.											
Hamilton Street	No change.		42,991	.....	.....	315,333	Same as last year.			.....	.....	41,799 12
Hamilton and Mountain Park	See statement.											
Hamilton and Dundas	No change.		Not reported.		Not reported.	.....	.....	.....	.....	4	a11,161 83	.....
Hamilton, Grimsby and Beamsville	No change.		.....	32,546	.....	879 30	.....	.....	.....	5	.....	b8,913 41
Huntsville and Lake of Bays (steam)	No change.		Not reported.		.....	1,511	.....	.....	.....	1	853 01	.....
International Transit	No change.		.....	8,648	.....	103,494	.....	.....	.....	1	.....	7,539 10
Kingston, Portsmouth and Cataraqui	No change.		66,423	.....	.....	101,435	.....	.....	.....	.....	.....	b1,924 41
Kitchener and Waterloo	1.12	.....	2,858	.....	.....	74,771	.....	.....	.....	2	.....	2,000 00
Lake Huron & Northern Ont. (steam)	Not operating now.											
London Street	No change.		.....	36,414	.....	655,514	Not reported last year.				.....	8,262 54
Midland and Simcoe	Operated for switching purposes only.				Not reported.		None in either year.				a3,284 03	.....
Mount McKay and Kakabeka Falls	No change.		Not reported.								a12,798 93	.....
Niagara Falls Park and River	No change.		.....	2,663	.....	538,274	.....	.....	.....	.....	.....	6,996 96
Port Arthur Civic	No change.		11,821	.....	.....	29,826	1	.....	1	.....	.....	50,634 04
Sandwich, Windsor and Amherstburg	.....	1,487	332,745	.....	1,216,107	.....	2	.....	16	.....	.....	5,685 18
Sarnia Street	No change.		.....	61,562	No change.		None in either year.				.....	b733 10
St. Thomas Civic	No change.		Not reported.		.....	43,172	.....	.....	.....	3	.....	
Sudbury-Copper Cliff Suburban	No change.		990	.....	16,924	.....	.....	1	.....	.....	121 92	.....
Thurlow (steam)	No changes.		Not reported.		Not reported.		.....	.....	.....	2	10,933 38	.....
Toronto and York Radial	.494	.....	50,878	.....	.....	775,636	1	.....	46	.....	.....	b28,670 39
Toronto Transportation Commission	8.663	.....	.....	908,308	.....	3,939,447	2	.....	.....	430	.....	35,651 08
Waterloo-Wellington	City of Kitchener took over Waterloo-Wellington Railway and has operated it since October 3rd, 1923, and the charter of the Waterloo-Wellington Ry. has been duly surrendered by order of the Provincial Secretary's Department of Ontario.											

(a) Decrease in deficit on year's operation.
(b) Increase in deficit on year's operation.

TABULATION OF OPERATING COSTS FOR YEAR ENDING DECEMBER 31, 1924.

Name of Railway	General Expenses	Maintenance Roadbed and Buildings	Maintenance Equipment	Motive Power	Wages	Damages to Persons and Property	Miscellaneous	Total	Operating Cost per Car Mile Run
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents
Buffalo & Fort Erie Ferry & Ry. Co	12,096 66	.....	3,341 54	1,990 73	.....	.....	.....	17,428 93	††
Cornwall Street	6,690 61	2,464 01	12,925 60	2,354 31	18,777 45	430 43	2,619 89	46,262 30	20.606
Fort William	32,325 14	19,630 55	27,033 85	19,462 79	54,781 33	.....	6,659 71	159,893 17	21.223
Guelph Radial Railway	15,786 76	9,180 12	13,126 83	10,333 25	18,390 91	5 61	1,448 51	68,271 99	23.243
Hamilton & Barton Incline	See statement.								
Hamilton Street	44,142 81	75,378 53	149,757 90	86,660 04	397,081 70	15,307 66	88,926 71	857,255 35	29.501
Hamilton & Mountain Park	See statement.								
Hamilton & Dundas	2,045 25	4,037 73	1,458 95	.....	285 48	677 16	370 69	8,875 26	††
Hamilton, Grimsby & Beamsville	15,509 86	34,175 41	28,156 62	30,213 29	52,130 09	4,572 53	32,961 73	197,719 53	57.504
Huntsville & Lake of Bays (steam)	250 19	150 00	528 68	.....	2,922 09	.....	1,365 26	5,216 22	††
International Transit	.....	2,722 05	4,830 58	7,920 00	13,162 62	.....	4,861 59	40,281 79	17.961
Kingston, Portsmouth and Cataraqui	10,346 47	4,162 46	15,468 32	6,241 18	20,363 80	.....	786 28	57,368 51	21.559
Kitchener and Waterloo	13,894 79	6,763 80	10,273 32	11,389 16	41,545 12	53 25	4,352 75	88,272 19	29.912
Lake Huron & Northern Ontario (steam)	Not operating now.								
London Street	38,111 84	66,146 12	78,882 06	43,898 52	267,916 16	21,963 08	29,446 31	546,364 09	26.170
Midland and Simcoe	Operated for switching purposes only.								
Mount McKay & Kakabeka Falls	1,030 69	6.04	2,734 39	.....	.....	.....	9,414 34	13,185 46	††
Niagara Falls Park and River	66,102 50	29,761 88	15,701 03	13,931 48	54,813 45	13,250 25	4,634 28	198,194 87	60.006
Port Arthur Civic	12,090 77	14,159 79	35,063 42	20,038 41	36,789 58	.....	11,727 25	129,869 22	20.767
Sandwich, Windsor & Amherstburg	96,692 00	70,954 13	76,749 39	99,389 53	225,232 67	169 73	26,351 69	595,539 14	27.819
Sarnia Street	8,553 50	5,151 80	11,943 35	11,099 37	15,925 50	.....	13,997 51	66,671 03	32.412
St. Thomas Civic	6,858 79	1,211 97	2,022 39	5,684 92	22,336 25	30 00	215 83	38,360 15	††
Sudbury-Copper Cliff Suburban	8,292 92	2,713 49	5,237 90	5,000 40	13,246 92	12 00	4,971 74	39,475 37	36.612
Thurlow (steam)	.....	12,008 07	10,866 55	.....	10,403 55	.....	7,226 09	40,504 26	††
Toronto & York Radial	126,364 93	139,503 21	128,194 66	155,807 29	213,111 91	669 13	36,064 64	799,715 77	42.628
Toronto Transportation Comm.	549,595 64	690,060 00	996,945 53	1,105,787 55	3,971,754 53	122,054 32	399,552 48	7,835,750 05	29.767
Waterloo-Wellington	City of Kitchener took over Waterloo-Wellington Railway and has operated it since October 3rd, 1923, and the charter of the Waterloo-Wellington Ry. has been duly surrendered by order of the Provincial Secretary's Department of Ontario.								

††Car miles not reported.

TABULATION OF CHARGES OTHER THAN OPERATING COSTS FOR YEAR ENDING DECEMBER 31, 1924

Name of Railway	Interest on Funded Debt	Interest and Discount on Unfunded Debt	Taxes	Transfer to Special Accounts	All Charges other than Operating Costs	Total Expenditure excluding Operating Costs	Total Expenditure including Operating Costs	Total Revenue from all sources	Per Car Mile Run		Net Deficit from Year's Operation	Net Surplus from Year's Operation
									Total Expenditure	Total Revenue		
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	$ c.	$ c.
Buffalo & Fort Erie Ferry & Ry. Co.	.....	.....	.....	2,014 42	2,014 42	.....	$17,428 93	21,109 28	††	††	.....	1,665 93
Cornwall Street	4,550 00	.....	1,452 45	5,000 00	33,116 16	11,622 36	a52,884 65	71,235 25	a23.556	31.737	.....	13,350 59
Fort William	65,184 33	.....	.....	35,184 70	100,369 03	a65,184 33	a225,077 50	203,612 22	c33.978	27.027	56,649 98	.....
Guelph Radial Ry.	20,966 08	8,417 50	2,698 96	.....	32,082 54	32,032 54	100,354 53	78,727 12	34.166	26.803	21,627 41	.....
Hamilton & Barton Incline.	See statement.											
Hamilton Street	12,577 80	7,392 24	103,942 38	.....	178,512 01	123,912 42	981,167 77	1,009,313 39	33.765	34.733	.....	28,145 62
Hamilton & Mountain Park.	See statement.											
Hamilton & Dundas	5,000 00	1,716 59	1,662 05	.....	8,378 65	8,378 65	17,253 91	7,939 58	††	††	9,314 33	.....
Hamilton, Grimsby & Beamsville	7,500 00	16,646 01	5,865 08	.....	49,527 73	30,011 09	227,730 62	164,335 91	66.165	47.746	63,394 71	.....
Huntsville & Lake of Bays (steam)	.....	.....	60 00	.....	60 00	60 00	5,276 22	11,247 00	††	††	.....	5,970 78
International Transit	1,125 00	9,923 98	1,120 21	20,000 00	.....	a12,404 05	a-c87,455 33	b103,458 14	a23.491	27.853	.....	992 76
Kingston, Portsmouth and Cataraqui	3,928 00	165 54	1,809 16	2,764 05	8,900 25	a6,136 20	a63,504 71	62,400 23	a23.865	23.449	3,868 54	.....
Kitchener & Waterloo	12,873 47	.....	305 40	11,859 14	32,634 05	a13,178 87	a101,451 05	113,310 20	34.377	38.396	.....	.....
Lake Huron & Northern Ont. (steam)	Not operating now.											
London Street	23,750 00	6,882 99	12,567 94	38,091 14	47,405 09	a46,943 76	a593,307 85	665,302 15	a28.418	31.867	.....	33,903 16
Midland & Simcoe	Operated for switching purposes only.											
Mount McKay & Kakabeka Falls	.....	243 36	534 08	21,354 13	†29,870 67	a†8,516 54	a†21,702 09	20,353 34	††	††	†22,692 79	.....
Niagara Falls Park & River	30,000 00	.....	9,263 73	.....	91,392 69	91,392 69	289,587 53	210,554 73	87.761	63.840	78,932 83	.....
Port Arthur Civic	28,427 51	1,253 00	.....	32,556 05	62,236 57	a29,680 51	a159,549 73	197,195 31	a25.513	31.434	.....	5,089 52
Sarnia, Windsor & Amherstburg	.....	176,462 60	1,311 70	13,980 33	234,343 98	a177,594 30	a773,133 44	780,748 20	a36.115	36.470	6,365 57	.....
Sarnia Street	6,293 00	593 90	2,063 13	.....	8,950 03	8,950 03	75,621 05	79,677 32	36.263	38.736	.....	4,056 26
St. Thomas Civic	5,022 35	211 19	.....	.....	5,233 54	5,233 54	43,593 69	23,728 22	††	††	19,865 47	.....
Sudbury-Copper Cliff Suburban	4,500 00	3,200 00	160 82	.....	7,860 82	7,860 82	47,336 19	47,603 98	43.902	44.155	.....	267 79
Thurlow (steam)	.....	.....	26 70	.....	7,545 97	7,545 97	48,050 23	57,955 32	††	††	.....	9,916 09
Toronto & York Radial	143,842 48	39,078 27	13,094 40	.....	196,015 15	196,015 15	995,730 92	761,137 78	53.084	40.577	234,593 14	.....
Toronto Transportation Commission	2,225,925 00	25,596 25	68,038 05	1,285,698 19	3,784,757 76	a2,499,059 57	a10,334,809 62	11,709,695 28	a39.261	44.484	.....	89,184 47
Waterloo-Wellington	City of Kitchener took over Waterloo-Wellington Railway and has operated it since October 3rd, 1923, and the charter of the Waterloo-Wellington Ry. has been duly surrendered by order of the Provincial Secretary's Department of Ontario.											

††Car miles not reported.
(a) Does not include special accounts.
(b) Includes $45,989.64 earnings from Ferry operation.
(c) Includes $34,779.53 operating expenses on Ferry operation.
†Includes dividend.

TABULATION OF ASSETS AND LIABILITIES AS OF DECEMBER 31, 1924.

Name of Railway	Authorized Capital Stock.	Assets			Liabilities					Surplus
		Cost of Railway Equipment, Land and Buildings	Cash and other Assets	Deficit	Capital Stock outstanding	Funded Debt	Current Liabilities	Accrued Liabilities	Reserve and other Special Funds	
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Buffalo & Fort Erie Ferry & Ry. Co.	100,000 00	94,221 37	6,268 95	.....	100,000 00	.....	.....	.....	.....	.....
Cornwall Street	200,000 00	277,693 41	14,747 21	.....	200,000 00	65,000 00	15,871 21	.....	8,797 38	2,772 03
Fort William	‡	1,303,500 00	504,995 93	.....	.....	1,303,500 00	6,144 29	7,091 53	491,760 11	.....
Guelph Radial Railway	.....	410,904 53	58,344 52	3,245 48	.....	292,289 20	144,430 09	16,818 96	15,710 80	.....
Hamilton & Barton Incline	See statement.									
Hamilton Street	1,205,000 00	2,487,160 73	7,719 10	.....	1,205,000 00	260,000 00	300,932 37	288 45	399,876 07	328,782 94
Hamilton & Mountain Park	See statement.									
Hamilton & Dundas	100,000 00	223,539 82	2,371 56	.....	100,000 00	100,000 00	52,679 14	.....	40,715 25	.....
Hamilton, Grimsby & Beamsville	235,000 00	499,148 81	5,195 04	380,231 66	235,000 00	150,000 00	342,737 79	1,250 00	155,587 72	.....
Huntsville & Lake of Bays (steam)	50,000 00	31,331 20	9,732 73	.....	27,800 00	.....	2,021 18	.....	5,286 97	5,955 78
International Transit	150,000 00	b569,727 74	13,749 96	.....	150,000 00	20,271 91	154,320 50	.....	182,103 44	76,781 85
Kingston, Portsmouth & Cataraqui	.....	.....	.....	.....	83,100 00	97,000 00	310 00	1,940 00	19,142 83	19,249 07
Kitchener & Waterloo	.....	449,456 82	23,718 84	.....	.....	231,407 69	1,709 35	85,928 81	152,596 44	471,642 29
Lake Huron & Northern Ontario (steam)	Not operating now.									
London Street	637,480 00	1,723,503 28	59,154 96	.....	637,480 00	475,000 00	127,159 85	11,287 72	379,270 82	152,459 85
Midland & Simcoe	Operated for switching purposes only.									
Mount McKay & Kakabeka Falls	500,000 00	347,101 38	58,917 76	68,532 96	386,955 00	.....	94 18	.....	87,502 92	.....
Niagara Falls Park & River	The International Ry. Co. with which this company is now operating reports inability to furnish data for tabulation.									
Port Arthur Civic	.....	580,735 20	436,870 65	.....	580,735 20	.....	48,908 12	18,778 76	369,183 77	.....
Sandwich, Windsor & Amherstburg	.....	3,641,306 94	166,589 58	.....	397,000 00	189,000 00	1,886,357 17	28,344 09	1,301,487 23	5,708 03
Sarnia Street	90,000 00	264,411 56	2,172 40	.....	90,000 00	90,700 00	8,000 00	.....	.....	77,883 96
St. Thomas Civic	.....	78,950 00	425 00	.....	.....	‡103,425 97	8,103 19	.....	.....	.....
Sudbury-Copper Cliff Suburban	250,000 00	321,122 48	8,614 69	.....	173,100 00	115,000 00	14,883 31	26,753 86	.....	.....

Thurlow (steam)	25,000 00	37,789 05	58,478 95	.....	25,000 00	.....	.....	.....	.....	71,268 00
Toronto & York Radial	.....	3,016,752 13	646,327 04	38,325 18	.....	2,775,000 00	911,963 20	14,441 15	.....	.....
Toronto Transportation Commission	.....	45,526,625 05	4,930,563 76	.....	.....	42,872,804 84	566,825 77	197,516 00	6,539,357 78	280,684 42
Waterloo-Wellington	City of Kitchener took over Waterloo-Wellington Railway and has operated it since October 3rd, 1923, and the charter of the Waterloo-Wellington Ry. has been duly surrendered by order of the Provincial Secretary's Department of Ontario.									

‡Municipal debentures.
(b) Includes ferry boat and other equipment.

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TELEPHONE SYSTEMS 1925

BEING AN APPENDIX TO THE REPORT OF THE ONTARIO RAILWAY AND MUNICIPAL BOARD FOR 1924

STATISTICAL INFORMATION RELATIVE TO THE TELEPHONE SYSTEMS WITHIN THE JURISDICTION OF ONTARIO

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO

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The Ontario Railway and Municipal Board

REPORT OF THE SUPERVISOR OF TELEPHONE SYSTEMS FOR THE YEAR 1924

The following applications under the provisions of "The Ontario Telephone Act, 1918," were dealt with by the Board in 1924.

Under Section 3c: For authority to issue debentures for extensions and improvements to Telephone Systems under Part I	2
Under Section 7: For authority to remove signatures from petitions to Municipal Councils praying for the establishment of a telephone system	1
Under Section 12: For authority to extend Municipal Telephone Systems into unorganized territory	1
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Under Section 33: To determine the validity of a special rate levied under the provisions of Part II of "The Ontario Telephone Act, 1918"	1
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Under Section 93: For authority to expend a portion of the moneys set aside for depreciation, upon new construction or extensions	2
Under Section 94: For authority to issue capital stock or bonds	2
Under Section 104a: For enquiry as to whether rates are sufficient to pay debenture debt, interest, maintenance charges, etc	1
Under Section 107: Complaining of the parallelling of existing poles lead without the consent of the Board	1
Total Number of Applications	280

In addition to the foregoing the Board dealt with one application under Section 7 of "The Obstructions on Highways Removal Act" 12 Geo. V, c. 82, for the apportionment of the cost of removing poles upon the highway and also heard an appeal from the decision of the county judge relative to the assessment of telephone property, under Section 79 of "The Assessment Act."

The Board or its Supervisor of Telephone Systems during the year visited fifty seven different points in the Province in connection with the foregoing applications.

The continued policy of the Board in endeavouring to secure an amicable settlement of matters in dispute between the applicant and respondent has, with

the assistance of the Board's Supervisor, proved successful in the majority of such cases.

In addition to the applications and complaints referred to, a vast amount of correspondence relating to telephone matters has been dealt with by the Board's Supervisor, through the medium of which much information and assistance has been given to municipalities, companies and other persons interested, and many difficulties that might otherwise have necessitated a formal application and public hearing have been satisfactorily adjusted.

The establishment of telephone systems by the rural municipalities under the provisions of Part II of "The Ontario Telephone Act, 1918" continues to grow in favour with the public. There are now one hundred and fourteen of these systems being operated or under construction. These systems are furnishing service in two hundred and fifty-six towns, villages and townships.

There are nine systems owned and operated by municipalities under the provisions of Part I of the Act, viz.: The cities of Fort William and Port Arthur, the Towns of Cochrane, Kenora, Fort Frances and Rainy River, and the Townships of Alberton, Caledon and Hilliard.

The number of telephone systems of which the Board has record is six hundred and forty-one, operating approximately 113,000 telephones and representing an investment of about $10,100,000.

Detailed statistics and other information relative to telephone systems within the jurisdiction of the Board will be found in the appendix to this report entitled "Telephone Systems, 1925."

FRANCIS DAGGER,
Supervisor of Telephone Systems.

LIST OF APPLICATIONS TO THE BOARD UNDER "THE ONTARIO TELEPHONE ACT, 1918"

		Procedure File.
Ardtrea Telephone Co., Ltd	Increased charges	9,192
Ansonville Telephone Co., Ltd	Approval Agreement for interchange of service with The Temiskaming & Northern Ontario Railway Commission	9,262
Alnwick Rural Telephone Co	Paralleling of pole leads of Harwood Rural Telephone Co	2,270
Austin, D. S. (Murray Brighton Telephone System)	Reinstallation Charge	9,319
Albemarle, Township of, Wm. Gillies (Gillies Telephone System)	*Vs.* Assessment Appeal	9,627
Arran, Township of	Approval By-law 14—use of certain highways to The Grimston Telephone Co., Ltd	9,683
Bobcaygeon Rural Telephone Co	Increased charges	8,914
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Both, Wm., and A. E. Fletcher	*See* "Kaladar Northern Telephone Co."	
Blanshard Municipal Telephone System	Price to be offered for plant and equipment of St. Marys, Medina & Kirkton Telephone Co., Ltd	9,001
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Bolton Telephone Co., Ltd	Issue of additional capital stock	9,194
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		Procedure File.
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Bell Telephone Co. of Canada, Ltd.	Approval of sale to, of plant etc., of Nelson Telephone Co., Ltd.	9,635
Bell Telephone Co. of Canada, Ltd.	Approval of sale to, of plant, etc., of Monteith-Dempsey Telephone System	9,637
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East Luther Telephone Co., Ltd	Approval Agreement providing for renting pin space to The East Luther Telephone Co., Ltd	9,209
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Fourteenth Brant Telephone Co., Ltd	Approval By-law No. 46 of Township of Brant, granting use of highways to	9,392
Fort Frances, Municipality of, etc	Approval of charges for interchange of service—(Application by Municipal Union of Rainy River)	9,631
George, Jas. N	Approval Agreement for purchase, from Michael Roche and Dan'l J. Ryan of certain telephone plant and equipment in County of Renfrew	8,980
Genrick, A. C., *et al*	*Vs.* Municipality of Raglan Telephone System—Removal of names of applicants from petition for extension of telephone system to their premises	9,040
Gosfield South, Township of	Approval By-law 302, use of certain highways to The New California Telephone Co., Ltd	9,157
Gibson, Wm. Albert	Approval sale to, by Wm. John Boynton, of certain telephone plant and equipment	9,187

		Procedure File.
Golden Rule Telephone Co., Ltd.	Approval By-law 148 of Township Thomson, granting use of certain highways to	9,263
Golden Rule Telephone Co., Ltd.	Authority to erect poles and wires on certain highway in Township Cobden (unorganized)	9,302
Greenbush Women's Institute, *et al*	*Vs.* Marysburg Telephone Co.—Terms for service	9,510
Gibson, Wm. Albert	Approval sale to The Pefferlaw Telephone System, Ltd., of "The Pefferlaw Private Telephone System"	9,515
Gillies Hill Telephone Co., Ltd.	Approval By-law 11 (1924) of Township Elderslie, granting use of certain highways to	9,581
Gillies, Wm. (Gillies Telephone System)	*Vs.* Township Albemarle—Assessment appeal	9,627
Gillies, Wm. (Gillies Telephone System)	*Vs.* Township Eastnor—Assessment appeal	9,628
Grimston Telephone Co., Ltd.	Approval By-law 14, Township Arran, granting use of certain highways to	9,683
Grimston Telephone Co., Ltd.	Approval By-law 14, Township Sullivan, granting use of certain highways to	9,684
Gauthier, Township of (unorganized)	Erection of poles and wires upon highways of, by Temiskaming Telephone Co., Ltd	9,685
Halton Telephone Co	Increased charges	8,890
Howick, Municipality of	Sale to, by Springbank Telephone Co., of certain telephone plant and equipment	8,939
Hilliard, Township of	Approval Agreement for interchange of service with The Temiskaming Telephone Co., Ltd	8,979
Howick Municipal Telephone System	Price to be offered to Wroxeter Rural Telephone Co., Ltd., for certain telephone plant and equipment located in Township Howick (including Police Village of Gorrie)	9,000
Home Telephone Co., Ltd.	Approval charges for extra mileage for individual and limited party line service outside certain limits	9,035
Home Telephone Co., Ltd.	Approval reinstallation charge	9,036
Howick Municipal Telephone System	Paralleling of pole leads by Wroxeter Rural Telephone Co., Ltd.	9,108
Humphrey, Municipality of	Extension of time to pass By-law providing for debenture issue to meet cost of establishing Municipal Telephone System	9,236
Harwood Rural Telephone Co	Parallelling of pole leads of Alnwick Rural Telephone Co	9,270
Henderson (Dr.), Private Telephone Co., Ltd.	Approval By-law 720 of Township Brock, use of certain highways to	9,341
Haldimand Municipal Telephone System	Extension of time to pass debenture by-law providing for establishment of	9,348
Hagarty and Richards, United Townships of	Approval By-law 155, issue of debentures for establishment of The Hagarty Municipal Telephone System	9,377
Hagarty Municipal Telephone System	Establishment of	9,377
Henderson, Wm. Jno. (trading as The Dr. Henderson Private Telephone System)	Approval Agreement for sale of his telephone system to The Dr. Henderson Telephone System, Ltd	9,463
Henderson (Dr.), Telephone System, Ltd.	Approval Agreement for sale of his telephone system to The Dr. Henderson Telephone System, Ltd	9,463
Hilliard, Municipality of; C. Wood, *et al*	*Vs.* enquiry as to sufficiency of charges to subscribers	9,506
Hilliard, Municipality of	Extensions to Municipal Telephone System (By-law 171)	9,507
Hastings, County of; Bradden Telephone Co., Ltd.	*Vs.* Apportionment of cost of removal of poles	9,514
Howick Municipal Telephone System	Paralleling of pole leads by The Minto Rural Telephone Co., Ltd.	9,580

		Procedure File.
Hawthorn Rural Telephone Co., Ltd.	Increased charges	9,654
Hawthorn Rural Telephone Co., Ltd., and Township Wallace	Apportionment of cost of removal of certain poles	9,672
Ingersoll Telephone Co., Ltd.	Approval sale to, of plant, etc., of Mills Telephone System (Geo. R. Mills)	9,636
James, Edgar, *et al*	Removal of names from Petition for establishment of certain telephone plant, etc., sold by Municipality of Kerns to Temiskaming Telephone Co., Ltd.	9,229
Kaladar, Northern Telephone Co.; C. J. Clark	*Vs.* Reconsideration of Board's Order *re* Agreement for Sale	8,961
Kerr Line Telephone Co., Ltd.	*See* "Queen's Line Telephone Co., Ltd."	9,053
Kerns, Municipality of	Approval Agreement for sale to Temiskaming Telephone Co., Ltd., of certain telephone plant, etc., and removal of names of Edgar James, *et al.*, from Petition for establishment of	9,229
Lount, Township of	Extension of The Strong Municipal Telephone System into	8,949
LaVallee, Municipality of	Authority to pass By-law providing for certain reconstruction, etc., to its Municipal Telephone System	9,090
La Company de Telephone DuNord (of Quebec)	Approval Agreement for Sale to, by Temiskaming Telephone Co., Ltd., of certain telephone plant and equipment	9,195
Lake Shore Mutual Telephone Co., Ltd.	Approval Agreement for interchange of service with The Bruce Municipal Telephone System	9,428
Lambeth Telephone Co., Ltd.	Approval Agreement for sale of certain telephone plant and equipment to The Byron Telephone Co., Ltd.	9,443
Lanark & Carleton Counties Telephone Co., Ltd.	Increased charges for service	9,508
Muskoka & Parry Sound Telephone Co., Ltd.	Approval Township McMurrich By-law 310, use of highways to	8,891
Monck, Township of	Approval By-law 509, establishment of "The North Monck Telephone System	8,947
Morley, Municipality of	Increased charges	8,964
Mersea, Township of	Approval By-law 229, granting use of certain highways to The White Telephone Co., Ltd.	9,003
Monck, Township of	Approval By-law 508, extension to its Municipal Telephone System	9,038
Muskrat Telephone Co., Ltd.	*See* "Queen's Line Telephone Co., Ltd."	9,053
Marmion Telephone Co., Ltd.	Approval By-law No. 9 (1923) of Township Elderslie, use of certain highways to	9,167
Marmion Telephone Co., Ltd.	Approval By-law No. 9 (1923) of Township Sullivan, use of certain highways to	9,168
Murray Brighton Telephone Co.	Approval of annual charge of $16.00 for rural service at Frankford	9,273
Manvers, Township of	Approval By-law 980, use of certain highways to The Pontypool Telephone Co., Ltd.	9,303
Murray-Brighton Telephone Co. (D. S. Austin)	Authority to collect reinstallation charge	9,319
Minesing Telephone System	*See* "Ronald, A."	
Minesing Telephone Co., Ltd.	Approval Agreement for interchange of service with A. Ronald	9,413
Mornington, Township of	Approval By-law 590, construction of certain extensions to its Municipal Telephone System and issue of debentures therefor	9,447
Marysburg Telephone Co.; Greenbush Women's Institute, *et al*, *vs*	Terms for service	9,510
Minto Rural Telephone Co., Ltd.	Paralleling of pole leads of Howick Municipal Telephone System	9,580

		Procedure File.
Maidstone, Township of	Approval By-law 952, extension to its Municipal Telephone System	9,599
Mills Telephone System (Geo. R. Mills)	Approval Sale of plant, etc., to Ingersoll Telephone Co., Ltd	9,636
Monteith-Dempsey Telephone System	Approval of sale of plant, etc., to The Bell Telephone Co. of Canada, Ltd	9,637
McMurrich, Township of	Approval By-law 310, use of highways to The Muskoka & Parry Sound Telephone Co., Ltd	8,891
McKay, John, *et al*	*Vs.* McKillop Municipal Telephone System—Remuneration for service	9,275
McKillop Municipal Telephone System; Jno. McNay, *et al, vs*	Remuneration for service	9,275
McCormick, Ambrose	*Vs.* Township Caledon—Terms, etc., for telephone service	9,511
McVittie, Township of (unorganized)	Erection of poles and wires upon highways of, by Temiskaming Telephone Co., Ltd	9,685
North Monck Telephone System	Establishment of	8,947
North Norwich, Municipality of	Agreement for interchange of service with The Canadian Machine Telephone Co., Ltd	8,966
North Norwich, Municipality of	Approval By-law 974, establishment of North Norwich Municipal Telephone System	9,052
North Renfrew Telephone Co., Ltd	*See* "Queen's Line Telephone Co., Ltd."	9,053
New California Telephone Co., Ltd	Use of certain highways in Township Gosfield South	9,157
Nord, La Company de Telephone du (Northern Telephone Co.) (of Quebec)	Approval Agreement for sale to, by Temiskaming Telephone Co., Ltd., of certain telephone plant and equipment.	9,195
North Algona, Township of	Extension of time to pass debenture By-law for establishment of its Municipal Telephone System	9,380
Nelson Telephone Co., Ltd	Approval of sale of plant, etc., to The Bell Telephone Co. of Canada, Ltd.	9,635
Omemee Telephone Co., Ltd	Increased charges	8,889
Orono Telephone Co., Ltd	Duplication of pole leads by Port Hope Telephone Co., Ltd	8,967
Oakwood Telephone Co., Ltd	Approval Constitution and By-laws for control and management of its undertaking	9,137
Oliver, Municipality of	Increased telephone charges	9,602
Osprey Municipal Telephone System	Increased charges	9,629
Port Hope Telephone Co., Ltd	Duplication of pole leads of Orono Telephone Co., Ltd	8,967
Passmore-Fowler Telephone System	Sale of plant and equipment to The Bell Telephone Co. of Canada, Ltd	9,016
Parkhill-Arkona Telephones, Ltd	Parallelling of pole leads of Warwick Telephone Co., Ltd	9,271
Pontypool Telephone Co., Ltd	Approval By-law 980 of Township Manvers, granting use of certain highways to	9,303
Pefferlaw Private Telephone System, Ltd	Approval By-law 222 of Township Georgina, granting use of highways to	9,372
Pefferlaw Private Telephone System, Ltd	Approval By-law 719 of Township Brock, granting use of certain highways to	9,374
Pefferlaw Telephone System, Ltd	Sale to, by William Albert Gibson, of "The Pefferlaw Private Telephone System"	9,515
Paipoonge, Municipality of	Application by Arthur J. Best, to determine validity of special rate levied for telephone service	9,632
Queen's Line Telephone Co., Ltd	Approval Agreement with North Renfrew Telephone Co., Ltd., *et al.*, for interchange of service	9,053
Roche, Michael, *et al*	Approval Agreement for sale to Jas N. George of certain telephone plant and equipment in County Renfrew	8,980

		Procedure File.
Riverview Telephone Co., Ltd	Approval By-law 714 of Township Brock, granting use of certain highways to	9,017
Riverview Telephone Co., Ltd	Approval By-law 327 of Township Thorah, granting use of certain highways to	9,018
Radcliffe, Township of	Approval By-law 119, establishment of Municipal Telephone System	9,039
Raglan Municipal Telephone System; A. C. Genrick, *et al.*, *vs.*	Removal of names of applicants from Petition for extension of telephone system to their premises	9,040
Rankin Rural Telephone Co	Increased charges	9,081
Raglan Municipal Telephone System	Extension of time to pass debenture By-law for establishment of	9,304
Ryde Municipal Telephone System	Extension of time to pass debenture By-law for establishment of	9,343
Ronald, A. (Minesing Telephone System)	Interchange of service with The Minesing Telephone Co., Ltd	9,413
Ryde, Township of	Approval debenture By-law 271, for establishment of Municipal Telephone System	9,462
Rankin Municipal Telephone System	Approval of charges for local and rural service at Eganville	9,601
Rainy River, Municipal Union of	Approval of charges for interchange of service between Telephone Systems of Municipality of Fort Frances, Alberton, etc	9,631
Sebastapol, Township of	Approval By-law 311, use of certain highways to The Cormac & Eganville Telephone Co., Ltd	8,892
Springbank Telephone Co., Ltd	Sale to Municipality of Howick of certain telephone plant and equipment	8,939
Strong, Municipality of	Extension of its Municipal Telephone System into Township Lount	8,949
Sullivan, Township of	Approval By-law 13 (1923), use of highways to The Desboro-Mooresburg Telephone Co., Ltd	8,965
South Walsingham, Township of	Approval By-law 445, use of highways to The Walsingham & Port Rowan Telephone Co., Ltd	8,988
Slate River Local Municipal Telephone System	Increased charges	8,991
St. Marys, Medina & Kirkton Telephone Co., Ltd	Price to be offered by Blanshard Municipal Telephone System, for system of	9,001
Salem Telephone Co., Ltd	Approval By-law 851 of Township Darlington, granting use of certain highways to	9,054
Sullivan, Township of	Approval By-law 9 (1923), use of certain highways to The Marmion Telephone Co., Ltd	9,168
Sullivan, Township of	Approval By-law 8 (1923), use of certain highways to The Sullivan-Elderslie Telephone Co., Ltd	9,178
Sullivan-Elderslie Telephone Co., Ltd	Approval By-law 8 (1923) of Township Sullivan, use of certain highways to	9,178
Sullivan-Elderslie Telephone Co., Ltd	Approval By-law 8 (1923) of Township Elderslie, use of certain highways to	9,179
South Diagonal Telephone Co	Increased charges	9,261
South Bruce Rural Telephone Co., Ltd	Agreement for interchange of service with The Wroxeter Rural Telephone Co., Ltd	9,301
St. Vincent, Township of	Increased charges	9,365
Sherwood, Jones and Burns, Municipality of United Townships of	Approval debenture By-law No. 50, establishment of Municipal Telephone System	9,393
Sandwich West Co-operative Telephone Co., Ltd	Increased charges	9,424
Strong, Municipality of	Extension of time to pass debenture By-law for establishment of its Municipal Telephone System	9,452

		Procedure File
Sydenham, Township of	Approval By-law 14, use of certain highways to The Bognor Telephone Co., Ltd	9,509
Sullivan, Township of	Approval By-law 14, use of certain highways to The Grimston Telephone Co., Ltd	9,684
Sullivan & Bentinck Telephone Co., Ltd	Approval By-law No. 84 of Township of Bentinck, granting use of certain highways to	9,686
Sullivan & Bentinck Telephone Co., Ltd	Approval By-law No. 51 of Township of Brant, granting use of certain highways to	9,687
Sullivan, Township of	Approval By-law No. 11, use of certain highways to The Sullivan & Bentinck Telephone Co., Ltd	9,688
Sullivan & Bentinck Telephone Co., Ltd	Approval By-law No. 11 of Township Sullivan, granting use of certain highways to	9,688
Sullivan & Bentinck Telephone Co., Ltd	Approval By-law No. 15 of Township of Elderslie, granting use of certain highways to	9,689
Temiskaming Telephone Co., Ltd	Approval Agreement for interchange of service with the Township of Hilliard	8,979
Thorah, Township of	Approval By-law 327, use of certain highways to The Riverview Relephone Co., Ltd	9,018
Temiskaming Telephone Co., Ltd	Bond issue	9,185
Temiskaming Telephone Co., Ltd	Approval Agreement for sale of certain telephone plant and equipment to La Company de Telephone Du Nord	9,195
Temiskaming Telephone Co., Ltd	Approval Agreement for purchase of certain Telephone plant and equipment of Municipality of Kerns, and removal of names of Edgar James, *et al.*, from Petition for establishment thereof	9,229
Temiskaming & Northern Ontario Railway Commission	Approval Agreement for interchange of service with The Ansonville Telephone Co., Ltd	9,262
Thompson, Township of	Approval By-law 148, use of certain highways to The Golden Rule Telephone Co., Ltd	9,263
Tiny, Township of	Extension of time to pass By-law providing for establishment of "The Tiny Municipal Telephone System"	9,565
Temiskaming Telephone Co., Ltd	Expenditure of $15,000 of Depreciation Fund on new construction and extensions	9,651
Town Line of Brant & Elderslie Telephone Co., Ltd	Approval By-law 47 of Township of Brant, granting use of certain highways to	9,662
Town Line of Brant & Elderslie Telephone Co., Ltd	Approval By-law 13 of Township Elderslie, granting use of certain highways to	9,663
Temiskaming Telephone Co., Ltd	Authority to erect poles and wires upon highways in Townships of McVittie and Gauthier	9,685
Vesta Telephone Co., Ltd	Approval By-law 43 of Township Brant, granting use of certain highways to	9,339
Vesta Telephone Co., Ltd	Approval By-law No. 13 of Township Elderslie, granting use of certain highways to	9,340
Walsingham Centre & Port Rowan Telephone Co., Ltd	Approval By-law 445 of Township South Walsingham, granting use of highways to	8,988
Wroxeter Rural Telephone Co., Ltd	Price to be offered by Howick Municipal Telephone System for certain telephone plant and equipment located in Township Howick (including Police Village of Gorrie)	9,000

		Procedure File.
White Telephone Co., Ltd	Approval By-law 229 of Township Mersea, granting use of certain highways to	9,003
Woodbridge & Vaughan Telephone Co., Ltd	Increased charges	9,037
Wallacetown & Lake Shore Telephone Ass'n	Increased charges	9,091
Wroxeter Rural Telephone Co., Ltd	Paralleling of pole leads of Howick Municipal Telephone System	9,108
Watt, Township of	Approval By-laws 556, 567 and 568, debenture issue for establishment of The Watt Municipal Telephone System	9,153
Westport Rural Telephone Co., Ltd	Increased charges	9,158
Warwick, Township of	Approval By-law No. 5 (1924), use of highways to The Warwick Telephone Co., Ltd	9,169
Warwick Telephone Co., Ltd	Approval By-law No. 5 (1924) of Township Warwick, granting use of highways to	9,169
Warwick Telephone Co., Ltd	Paralleling of pole leads of The Parkhill-Arkona Telephones, Ltd	9,271
Wilmot Township Municipal Telephone System	Increased charges	9,272
Wroxeter Rural Telephone Co., Ltd	Agreement for interchange of service with The South Bruce Rural Telephone Co., Ltd	9,301
West Garafraxa Telephone Co-operative Ass'n, Ltd	Agreement for interchange of service with The Robert Henry Edgar Telephone Co., Ltd	9,342
Wood, C., *et al.*, *vs.* Municipality of Hilliard	Enquiry as to sufficiency of charges to subscribers	9,507
Wallace, Township of, and Hawthorn Rural Telephone Co., Ltd	Apportionment of cost of removal of certain poles	9,672
Zion Line Telephone Ass'n, Ltd., *et al*	Agreement for interchange of service with The Queen's Line Telephone Co., Ltd	9,053

LIST OF BELL TELEPHONE AGREEMENTS APPROVED BY THE BOARD UNDER SECTION 82 OF "THE ONTARIO TELEPHONE ACT, 1918."

Exchange and Toll Line Agreements	Procedure File.
Adelaide Telephone Co., Ltd.	9,404
Alexander, Jas. (Alexander Telephone System)	9,566
Beatty, A. C. (Beatty Telephone System)	9,041
Bracebridge & Muskoka Lakes Telephone Co., Ltd.	9,249
Byron Telephone Co., Ltd.	9,333
Brussels, Morris & Grey Telephone System	9,395
Chelmsford Telephone Line (*See* "Tremblay, R. V.")	
Cambray Telephone Co., Ltd.	9,461
Dunnet Municipal Telephone System	9,467
Dungannon Municipal Telephone System	8,913
Dunsford Telephone Light & Power Co-operative Ass'n, Ltd.	9,538
Dysart, Township of	9,550
Davis, Messrs. Joseph & Leslie (*See* "Rankin Telephone Co.")	
Douro, Township of	9,618
Ennismore, Township of	9,542
Everett Telephone Co., Ltd.	9,677
Flos Municipal Telephone System	9,097
Fingal Telephone Co., Ltd.	9,419
Huntsville, Lake of Bays and Lake Simcoe Navigation Co., Ltd.	9,002
Houghton, Bayham & Tillsonburg Telephone Co., Ltd.	9,115
Hopetown Telephone Co., Ltd.	9,697
Haldimand Rural Telephone Co., Ltd.	9,702
Kerr Line Telephone Co., Ltd.	8,923
London, Township of	9,079
Leeds & Frontenac Rural Telephone Co., Ltd.	9,336
Laird, Township of	9,415
Lavant-Dalhousie Telephone Co., Ltd.	9,646
Mississippi Telephone Co., Ltd.	9,575
Mono Mills Telephone Co., Ltd.	9,591
North Renfrew Telephone Co., Ltd.	8,924
Norfolk & Tillsonburg Telephone Co., Ltd.	9,049
North Gosfield Municipal Telephone System	9,682
Oro Telephone Co., Ltd.	9,092
Orono Telephone Co., Ltd.	9,191
Plum Hollow & Eloida Independent Co., Ltd.	9,623
Pelee Island, Township of	9,656
Robert Henry Edgar Telephone Co., Ltd.	9,029
Rural Telephone Co. of Kitley, Ltd.	9,096
Rankin Telephone Co	9,606
Stroud Telephone Co., Ltd.	9,048
Tremblay, R. V. (Chelmsford Telephone Line)	9,197

Service Station Agreements

Adelaide Telephone Co., Ltd.	9,404
Ansonia & Thessalon Municipal Telephone System (*See* "Thessalon, Township of")	
Bonfield Telephone Line	8,987
Brougham & Gratton Telephone Co., Ltd.	9,034
Beatty Telephone System (A. C. Beatty)	9,041
Blanchard Private Telephone Line (Edward Blanchard)	9,106
Bond Corners Telephone Co., Ltd.	9,211
Balaclava Telephone Co., Ltd.	9,235
Byron Telephone Co., Ltd.	9,333
Bobcaygeon Rural Telephone Co., Ltd.	9,346
Balsam Hill Telephone Co., Ltd.	9,368
Bethesda-Mutual Telephone Co	9,387
Brockville Road Rural Telephone Co., Ltd.	9,567
Bexley Telephone Co., Ltd.	9,589
Bognor Telephone Co., Ltd.	9,615
Brant Telephone Co., Ltd.	9,693
Chippawa Hill Telephone Co., Ltd.	8,910
Centre Road Telephone Co., Ltd.	8,911
Coulson-Jarratt Telephone Co., Ltd.	8,921
Champlain Point Telephone Co., Ltd.	8,930
Colchester North Telephone System	9,378
Chisholm Municipal Telephone System	9,466
Carlsruhe Telephone Line	9,692
Durham Road Telephone Co., Ltd.	8,936

	Procedure File.
Derby Telephone Co., Ltd.	9,103
Dingwall Telephone Co., Ltd.	9,212
Doe Lake Telephone Co., Ltd.	9,417
Dunsford Telephone Light & Power Co-operative Ass'n, Ltd.	9,538
Durham Road Telephone Co., Ltd.	9,546
Desboro Mooresburg Telephone Co., Ltd.	9,551
Excelsior Telephone Co., Ltd.	9,213
East Woodville Telephone Co., Ltd.	9,361
Eldon Union Telephone Co., Ltd.	9,362
East Darlington Telephone Co., Ltd.	9,583
Fourth Line Telephone Ass'n	9,033
Fairview Telephone Co., Ltd.	9,214
Fraser Telephone Co., Ltd.	9,215
Fingal Telephone Co., Ltd.	9,419
Glen Eden Telephone Co., Ltd.	9,289
Goulais Bay Telephone Co., Ltd.	9,296
Greenwood Telephone Ass'n, Ltd.	9,332
Goodwood Rural Telephone Co., Ltd.	9,379
Glenview Rural Telephone Co., Ltd.	9,477
Golden Rule Telephone Co., Ltd.	9,478
Halton Telephone Co., Ltd.	9,007
Hoath Head & Grey Telephone Co., Ltd.	9,056
Hope Lumber Company's Telephone System	9,095
Henderson Private Telephone Line (W. J. Henderson)	9,105
Hogg & Lytle Telephone System	9,295
Head Lake Telephone Co., Ltd.	9,421
Hampshire Telephone Co., Ltd.	9,513
Haldimand Rural Telephone Co., Ltd.	9,702
Ingleside Telephone Co., Ltd.	9,216
Innisfil Telephone Co., Ltd.	9,558
Jackson Telephone Co., Ltd.	9,267
Kemble & Sarawak Telephone Co., Ltd.	8,977
Korah Base Line Telephone Co., Ltd.	8,984
Korah Central Telephone Co., Ltd.	9,585
Livingstone Rural Telephone Co., Ltd.	9,027
London, Township of	9,079
Lanark & Carleton Counties Telephone Co., Ltd.	9,561
Lorne Power Co., Ltd.	9,573
Lyons Telephone System	9,639
Muskrat Lake Telephone Co., Ltd.	8,927
Milton Telephone Co., Ltd.	8,986
Mapleshade Telephone Co	9,217
Mount Granite Telephone Co., Ltd.	9,329
Marmora Municipal Telephone System	9,360
Manse Grove Telephone Co., Ltd.	9,363
Muskoka River Telephone Co., Ltd.	9,496
Marmion Telephone Co., Ltd.	9,552
Massey Station Telephone Co., Ltd.	9,590
Mississauga River Improvement Co., Ltd.	9,648
McCreary Telephone Co., Ltd.	9,403
North Renfrew Telephone Co., Ltd.	8,925
North Brock Telephone Co., Ltd.	9,104
North Bonnechere Telephone Ass'n, Ltd.	9,227
North Monck Municipal Telephone System	9,239
North Horton Telephone Ass'n, Ltd.	9,416
Norland Independent Telephone Co., Ltd.	9,422
Nipissing Municipal Telephone System	9,465
North Gosfield Municipal Telephone System	9,682
Oro Telephone Co., Ltd.	9,092
Progressive Telephone Co., Ltd.	9,021
Peerless Telephone Co., Ltd.	9,218
Penhurst Telephone Co., Ltd.	9,219
Pioneer Telephone Co., Ltd.	9,220
Queen's Line Telephone Co., Ltd.	8,928
Riverside Telephone Co., Ltd.	9,221
Riverview Telephone Co., Ltd.	9,258
Renfrew & Shamrock Telephone Ass'n, Ltd.	9,369
Rumney Settlement Telephone Co., Ltd.	9,423
Silcote Telephone Co., Ltd.	8,900
Saugeen Rural Telephone Co., Ltd.	8,909
South Diagonal Telephone Co., Ltd.	9,057

	Procedure File.
Springcreek Telephone Co., Ltd	9,222
Scratch & Palmer Telephone System	9,223
Section Telephone System	9,247
Salem Telephone Co., Ltd	9,322
Sandwich West Co-operative Telephone Co., Ltd	9,335
St. Vincent, Township of	9,418
Superior Telephone Club	9,464
Second Line Drummond Telephone Co., Ltd	9,473
South McNaughton Telephone Co., Ltd	9,490
South Brant Rural Telephone Co., Ltd	9,545
South Elderslie Telephone Co., Ltd	9,553
Sullivan & Elderslie Telephone Co., Ltd	9,554
Tarentorus Telephone Co., Ltd	9,359
Thessalon, Township of (operating The Ansonia & Thessalon Municipal Telephone System)	9,364
Uptergrove Telephone Co., Ltd	9,181
Victoria Rural Telephone Co., Ltd	9,647
White Telephone System	9,334
Widdifield Municipal Telephone System	9,497
Wahnapitae Power Co., Ltd	9,597
Zion Line Telephone Ass'n	8,926

MUNICIPAL TELEPHONE UNDERTAKINGS OPERATING UNDER PART I OF "THE ONTARIO TELEPHONE ACT, 1918."

Report for 1924	Alberton	Cochrane	Caledon	Fort William	Hilliard	Kenora	Port Arthur	Rainy River	Fort Frances	Dryden
Year established	1922	1920	1922	1902	1921	1902	1902	1920	1913	1920
Number of telephones	69	329	325	4,428	65	1,105	3,287	105	492	94
Number of circuits	5	282	42	....	....	500	....	40	....	4
Miles of pole lead	37	3½	160	12½	34¼	13	40	40	....	1
Miles of wire	118	216	335	15,549	105	....	3,860	82	535	17
(a) on poles	118	216	335	5,183	105	700	....	82	535	17
(b) underground	....	....	....	10,366	....	Submarine 3½	....	....	....	....
RATES FOR SERVICE PER ANNUM:	$ c. $ c.	$ c.	$ c.	$ c.	$ c.	$ c.	Wall $ c. Desk $ c.	$ c.	$ c.	$ c.
(a) Individual line, business	.....	40 00	20 00	48 00	16 00	35 00	48 00 50 00	40 00	36 00	36 00
(b) Individual line, residence	.....	25 00	20 00	24 00	16 00	25 00	24 00 25 00	25 00	25 00	24 00
(c) Party line, business	.....	32 00	20 00	40 00	16 00	.....	40 00 42 00	.....	24 00	34 00
(d) Party line, residence	12 00 16 00*	20 00	20 00	18 00	16 00	15 00	18 00 20 00	.....	18 00	22 00
CAPITAL ACCOUNT:	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Total Assets	7,126 52	46,738 98	33,410 87	357,165 16	7,628 55	78,979 73	310,935 59	11,649 95	23,492 62	10,189 77
Total Liabilities	6,777 37	40,933 35	29,065 42	371,500 00	6,285 94	32,443 74	272,184 28	9,173 82	13,219 89	7,769 04
Sinking Fund	†	†	†	214,280 77	†	6,824 32	102,483 18	†	†	†
REVENUE ACCOUNT:	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Gross Income	2,150 46	10,833 71	6,746 25	114,696 31	1,044 50	22,592 45	90,148 97	3,773 45	12,550 15	2,626 00
Expenses	586 15	6,438 05	3,895 10	66,447 30	653 37	13,285 08	65,610 33	3,014 79	7,211 19	1,420 00
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Gross gain from Operation	1,564 31	4,395 66	2,851 15	48,249 01	391 13	9,307 37	24,538 64	758 66	5,338 16	1,206 00
Interest and Sinking Fund	¶1,240 53	¶2,789 90	¶3,188 02	30,260 26	¶435 87	3,396 94	24,185 81	¶1,637 35	¶2,368 16	¶927 65
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Net gain for year	323 78	1,605 76	.....	17,988 75	.....	✪5,910 43	352 83	.....	2,970 00	278 35
Net deficit for year	.....	.....	336 87	.....	44 74	.....	.....	878 69	.....	.....

*Township of McIrvin.

†Instalment debentures.

✪$1,781.84 in excess of sinking fund amount, 1924, was written into depreciation reserve account, which when taken into account leaves a net gain of $4,128.59 .

¶Principal and interest instalment.

MUNICIPAL TELEPHONE UNDERTAKINGS OPERATING UNDER PART I OF THE ONTARIO TELEPHONE ACT.

Municipality	Secretary or Municipal Clerk	P.O. Address
Township of Alberton	F. E. Stewart	Crozier
Township of Caledon	W. J. Warnock	Caledon
Town of Cochrane	R. C. Mortson	Cochrane
Town of Dryden	J. E. Gibson	Dryden
Town of Fort Frances	H. E. Marr	Fort Frances
City of Fort William	Alex. McNaughton	Fort William
Township of Hilliard	G. Harrison	Box 36, Thornloe
Town of Kenora	F. J. Hooper	Kenora
City of Port Arthur	F. D. Jackson	Port Arthur
Town of Rainy River	E. E. Jess	Rainy River

SYSTEMS OPERATING AND IN COURSE OF ORGANIZATION UNDER PART II OF "THE ONTARIO TELEPHONE ACT."

Municipality.	Secretary or Municipal Clerk	P.O. Address
Amherst Island Tp	D. H. Filson	Stella.
Assiginac Tp	Thos. Norquay	Manitowaning.
Atwood Tp	W. H. Williscraft	Rainy River.
Belmont Tp	Jas W. Russell	Havelock, R.R. 3.
Blanshard Tp	S. Adamson	St. Mary's, R.R. 6.
Blyth Tp	Jas. D. Moody	Blyth.
Brooke Tp	A. R. Chapman	Inwood.
Brighton Tp	Fred. O. Wade	Brighton, R.R. 1.
Bruce Tp	N. T. Jones	Kincardine.
Brudenell and Lyndock Tps	Simon Finnerty	Killaloe, R.R. 1.
Brussels (Village) Morris and Grey Tps.	A. H. Macdonald	Brussels.
Carlow Tp	J. W. Hudson	Boulter.
Chapple Tp	Thos. Hood	Barwick.
Chinguacousy Tp	W. D. Bowles	Mono Road.
Chisholm Tp	R. W. Butler	Alderdale.
Christie Tp	Wells Thompson	Orrville.
Colborne Tp	E. V. Lawson	Goderich, R.R. 3.
Colchester North Tp	T. W. Weyburn	Essex.
Coldwater (Village)	H. Elliott	Coldwater.
Cramahe Tp	F. A. Black	Vernonville.
Dawn Tp	J. J. Harrison	Dresden, R.R. 4.
Douro Tp	Maurice Condon	Lakefield, R.R. 4.
Dover Tp	John Grant	Eberts.
Dryden (Town)	J. E. Gibson	Dryden.
Dummer Tp	C. J. Darling	Warsaw, R.R. 2.
Dungannon Tp	Thos. Turriff	Detlor.
Dysart Tp	Arthur Batchelor	Haliburton.
Emily Tp	Moses Ruth	Omemee, R.R. 1.
Emo Tp	E. T. McComb	Emo.
Ennismore Tp	J. J. O'Connor	Ennismore, R.R. 1.
Erin Tp	Richard Bryan	Hillsburg, R.R.1.
Euphrasia Tp	T. I. Fawcett	Markdale, R.R. 2.
Euphrasia Tp. (Beaver Valley)	C. Running	Camperdown.
Faraday Tp	F. A. Towle	Bancroft.
Flos Tp	C. S. Burton	Elmvale.
Fort Frances (Town)	H. E. Marr	Fort Frances.
Glenelg Tp	Thos. J. Brodie	Holland Centre, R.R. 2.
Goderich Tp	Chas. E. Wise	Clinton, R.R. 3.
Gore Bay (Town)	F. W. Major	Gore Bay.
Gosfield, North Tp	S. H. Wyatt	Cottam.
Hagarty and Richards Tps	E. Hayes	Killaloe.
Haldimand Tp	F. W. Hare	Cobourg, R.R. 5.
Harvey Tp	John P. Smith	Peterborough, R.R. 1.
Hay Tp	Andrew F. Hess	Zurich.
Howick Tp	J. H. Rogers	Fordwich.
Howland Tp	J. H. Skippen	Sheguiandah.
Humphrey Tp	A. A. Young	Rosseau.
Hungerford Tp	E. Cassidy	Bogart.
Huron and Kinloss Tps	Ross H. Martyn	Ripley.
Jocelyn Tp	H. E. Crowder	Carterton.
Johnson Tp	Miss T. W. Bretz	Desbarats.
Kerns Tp	E. Sackrider	New Liskeard, R.R. 1.
Laird Tp	Newman Johnson	Laird.
La Vallee Tp	S. B. Mattoon	Devlin, R.R. 1.
London Tp	J. A. Hughes	Ilderton.
MacDonald Tp	Edward Hutchison	Echo Bay.
Magnetawan (Village)	H. Q. Snuggs	Magnetawan.
Maidstone Tp	A. Mousseau	Woodslee.
Manvers Tp	W. A. Jakeman	Bethany.
Marmora Tp	Chas. Jones	Marmora.
McKellar Tp	Wm. M. Taylor	McKellar.
McKillop Tp	J. M. Govenlock	Seaforth, R.R. 1.
Medonte Tp	T. D. Robinson	Moonstone.
Mersea Tp	A. E. Newman	Leamington.

SYSTEMS OPERATING AND IN COURSE OF ORGANIZATION UNDER PART II OF "THE ONTARIO TELEPHONE ACT"—*Continued.*

Municipality.	Secretary or Municipal Clerk	P.O. Address
Minden Tp.	R. H. Baker	Minden.
Monck Tp.	Thos. Mears	Beaumaris.
Monck Tp. (North Monck)	Albert J. Goltz	Bardsville.
Monteagle and Herschel Tps.	T. B. Robinson	Greenview.
Moore Tp.	D. M. Johnston	Courtright.
Morley Tp.	Guy G. Gamsby	Stratton.
Mornington Tp.	W. T. Shearer	Poole.
Nipissing Tp.	Thos. Rowlandson	Nipissing.
North Algona Tp.	Wm. J. Hugli	Golden Lake.
North Easthope Tp.	Margaret McGillawee	Stratford, R.R. 1.
North Norwich Tp.	E. Burpee Palmer	Norwich.
O'Connor Tp.	D. R. White	Kakabeka Falls.
Oliver Tp.	H. Gorton	Murillo.
Osprey Tp.	G. D. Short	Feversham.
Otonabee Tp.	F. A. Eason	Keene.
Paipoonge Tp.	H. J. Carter	Murillo.
Pelee Tp.	Hubert Taylor	Scudder.
Percy Tp.	F. H. Meneilley	Warkworth.
Plummer Additional Tp.	Thos. Humphries	Bruce Mines.
Radcliffe Tp.	C. B. Denison	Combermere.
Raglan Tp.	A. E. Lidkie	Palmer Rapids.
Ratter and Dunnett Tps.	R. H. Wilson	Warren.
Rochester Tp.	F. A. Trepanier	St. Joachim.
Roxborough Tp.	Murdock McLeod	Moose Creek.
Ryde Tp.	Wesley Rebman	Barkway.
Sandwich South Tp.	Jas. McAuliffe	Maidstone.
Sherwood, Jones and Burns Tps.	Henry J. Chapeski	Barry's Bay.
Shuniah Tp.	E. E. Thomas	Intola.
South Algona Tp.	John Nelan	Ruby.
Stanhope Tp.	Angus Coulter	Boskung.
St. Joseph Tp. (Richard's Landing Mun. Telephone Club)	S. Shipman	Richard's Landing.
St. Vincent Tp.	Geo. G. Alberry	Meaford.
Strong Tp.	A. M. Church	Sundridge.
Tarbutt and Tarbutt, Additional Tps.	W. E. Hollingsworth	MacLennan.
Tay Tp.	G. W. Allison	Victoria Harbor.
Tay Tp. (North River)	John Wm. Fell	Coldwater.
Tay Tp. (West Tay.)	W. H. Montgomery	Wyebridge, R.R. 1.
Thessalon Tp.	Theo. E. Clinton	Thessalon.
Tilbury East Tp.	Miss M. A. Farquharson	Merlin, R.R. 1.
Tilbury West Tp.	J. W. Brown	Comber.
Tiny Tp.	Jos. E. Brunelle	Lafontaine.
Tuckersmith Tp. (Bayfield)	A. E. Erwin	Bayfield.
Tuckersmith Tp.	J. B. Mustard	Brucefield.
Tyendinaga Tp.	R. F. Kinnear	Lonsdale.
Vespra Tp.	A. B. Coutts	Barrie.
Waterloo Tp.	Anson Groh	Preston, R.R. 2.
Watt Tp.	Mark Kay	Ufford.
Wellesley Tp.	J. C. McKay	Wallenstein.
Widdifield Tp.	Jno. A. Carmichael	North Bay.
Wilmot Tp.	A. R. G. Smith	New Hamburg.
Worthington Tp.	Edmund Kearney	Sleeman.

STATISTICS

TELEPHONE SYSTEMS

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
121	Aberdeen Plummer Centre Line Telephone Association, Ltd	Archie Brechin, Jr.	R.R.3,Bruce Mines	1914	42	21	42	3,833	454 43	459 28
435	Acorn Rural Telephone Association, Ltd.	R. W. Ross	Cobden	1911	21	7	7	1,100	222 27	232 16
542	Addington Telephone Company, Ltd.	J. A. Milsap	Moscow	1910	37	10	20	2,500	192 00	192 00
305	Addison Rural Independent Telephone Co., Ltd.	Morris Westlake	Tin Cap	1908	234	48	105	11,300	3,513 96	3,085 41
191	Adelaide Telephone Company, Ltd.	M. C. Morgan	Kerwood	1909	249	46	112	15,000	2,125 78	3,104 39
79	Admaston Rural Telephone Association, Ltd.	C. L. McCrady	Admaston Station	1910	35	10	32	1,444	356 60	346 05
1	Ahmic Telephone Co., Ltd.	W. J. Snaith	Ahmic Harbor	1907	.....	.....	23	700	Did not operate 1924	
4	Alberton Municipal Telephone System	F. E. Stewart	Crozier	1922	69	37	118	8,179	2,150 46	1,826 68
308	Aldborough Farmers Telephone Association Ltd.	Henry A. Mistele	Rodney	1911	206	74	119	5,543	2,391 51	2,248 28
132	Alexander Telephone System	Jas. Alexander	Elmwood	1909	146	36	87	7,200	2,307 92	1,689 54
365	Algoma Central & Hudson Bay Railway Co.	Alex. Taylor	TradersBk.Chambers, Toronto	1899	77	335	415	124,952	3,695 35	25,007 99
366	Algoma Eastern Railway Co.			1900	39	87	87	29,593	1,249 45	14,516 42
577	Algonquin Park Telephone System	.....	.....	.....	.....	.....	.....	.....	.....	.....
509	Alice Telephone Association	John W. Hamilton	R.R. 5, Pembroke	1914	42	13	26	3,360	210 00	280 00
261	Allenford Rural Telephone Co., Ltd.	G. C. Wain	Allenford	1912	189	65	130	15,501	2,233 10	1,834 02
319	Alnwick Rural Telephone Co., Ltd.	Delbert Varcoe	R.R. 3, Roseneath	1909	146	46	60	5,100	2,373 50	1,101 24
367	Amabel Telephone Association	Geo. Eldridge	Hepworth	1911	27	10½	21	1,002	120 15	120 15
619	Amherst Island Mun. Tel. System	D. H. Filson	Stella	1921	23	4½	9	3,006	842 15	723 86
411	Ansonville Telephone Co., Ltd.	W. J. Grummett	Ansonville	1924	59	4	60	9,952	1,589 18	962 02
2	Apsley Telephone Co., Ltd.	Russell Hales	Apsley	1909	52	41	41	3,500	520 00	312 77
130	Arden & Parham Telephone System	Everett Scott	Arden	1921	130	75	130	9,000	2,500 00	1,647 00
162	Ardoch Rural Telephone System	J. B. Myers	Ardoch	1916	56	53	53	2,500	485 00	330 00
368	Ardtrea Telephone Co., Ltd.	Fred Holmes	R.R. 3, Orillia	1916	21	22	66	3,655	536 79	608 54
629	Armstrong Private Telephone Line	Jas. Armstrong	Millbridge	1920	1	1¼	2½	250	Private line no revenue	
492	Arran No. 1 Telephone Association	H. B. Legge	Dobbinton	1912	81	25	70	3,645	432 95	415 00
80	Ashgrove Rural Telephone Co., Ltd.	Norman Wrigglesworth	Georgetown	1908	13	2	4	400	122 00	122 00
644	Assiginac Municipal Telephone System	Thos. Norquay	Manitowaning	1920	45	28	28	2,050	411 20	278 30
646	Atherley Telephone Association, Ltd.	John Symington	R.R. 2, Atherley	1918	7	2½	5	900	72 68	72 68
338	Atwood Municipal Telephone System	W. H. Williscraft	Rainy River	1921	34	10	31	3,265	734 86	695 27
141	Augsburg Telephone Association Ltd.	Fred. F. Griese	R.R. 5, Eganville	1919	25	14	28	2,500	25 75	25 75
3	Ayr Rural Telephone Co., Ltd.	James G. Fair	Ayr	1909	189	70	194	9,994	3,444 83	2,822 67
465	Ayton Telephone Co., Ltd.	Thos. J. Burke	Ayton	1914	22	8	16	920	192 85	171 25

369	Back Line Telephone Co., Ltd.	W. E. Reid	Shelburne, R.R. 2	1917	24	8½	17	1,200	168 00	187 40
370	Balaclava Telephone Co.	Jas. McKnight	Balaclava	1912	53	18	90	2,450	618 71	618 71
371	Balderson Telephone Co., Ltd.	Duncan McLaren	Balderson	1912	142	22	86	7,500	1,100 00	923 01
250	Balmoral Telephone System	Myron A. Gee	Wheatley	1923	122	2	66	10,500	4,693 14	4,078 61
372	Balsam Hill Telephone Co., Ltd.	Wellington Hodgins	R.R. 2, Renfrew	1912	29	14	28	1,400	356 31	330 79
373	Barrie Angus Telephone Co., Ltd.	Wm. Pearce	Angus	1915	43	20	40	2,500	600 00	588 04
504	Barrie Island Telephone Co., Ltd.	Arthur F. Lane	Barrie Island	1908	32	24	24	700	198 60	189 61
601	Bayfield Municipal Telephone System	A. E. Erwin	Bayfield	1911	20	2	4	1,795	241 56	205 20
652	B. D. & H. Telephone Line	H. W. Huff	R.R. 1, Yarker	1913	4	3	6	550	4 00	4 00
129	Beatty Telephone System	Dr. A. C. Beatty	Garden Hill	1895	198	61	102	10,400	2,850 00	1,810 00
279	Beaver Mills Telephone System	Paul C. Summerfeldt	Cannington	1907	3	1¼	2½	300	24 60	24 60
358	Beaver Valley Municipal Telephone System	C. Running	Camperdown	1913	419	294	731	41,000	8,340 00	7,475 47
525	Beckwith & Montague Rural Tel. Co., Ltd.	Robt. J. Sample	R.R. 1, Perth	1915	60	32	70	5,683	584 45	560 37
133	Beeton Telephone Co., Ltd.	N. P. McDonald	Beeton	1911	806	275	996	63,426	15,340 14	12,074 59
579	Bellrock and Shimo Telephone Co., Ltd.	Joseph Donoghue	Enterprise	1916	27	18	36	1,700	135 00	126 62
523	Belmont Municipal Telephone System	Jas. W. Russell	R.R. 3, Havelock	1923	114	35	70	9,232	1,798 03	2,014 81
83	Belmont Telephone Co-op. Assn., Ltd.	A. W. Venning	Belmont	1905	380	82	193	10,000	5,771 23	4,283 22
84	Ben Allen Telephone Co., Ltd.	W. J. Cavell	R.R. 7, OwenSound	1910	8	4½	9	540	96 00	100 20
375	Bethel Rural Telephone Association	F. Nixon	Dundalk	1909	18	7½	15	650	190 00	130 00
135	Bethesda Mutual Telephone Co., Ltd.	A. H. Brent	Bowmanville	1908	12	4	15	720	90 20	86 00
5	Bethesda Stouffville Telephone Co., Ltd.	D. W. Heise	R.R. Gormley	1904	1,101	214	1,139	94,934	21,747 94	18,277 87
275	Bexley Telephone Co., Ltd.	J. E. McKague	Bexley	1914	17	19	38	730	50 00	54 96
376	Billings Mutual Telephone Co.	Earl Graham	Kagawong	1912	48	23	23	1,571	121 50	73 00
289	Birch Lake Telephone Co., Ltd.	S. W. Scott	R.R. 2, Webbwood	1920	12	9	18	1,792	57 40	57 40
364	Black Lake Telephone Co., Ltd.	R. T. Noonan	Stanleyville	1923	13	20	40	1,600	122 00	122 00
572	Blackwater Telephone Line	Amalgamated with Oakwood Tel. Co., Ltd.								
560	Blair Telephone System	Estate late Peter Blair	Rosemont	1915	System sold to Wm. Cauthers, Mansfield, and Samuel Barber, R.R. 1 Rosemont.					
265	Blanchard Telephone System	Dr. E. Blanchard	Cannington	1910	12	10	10	300	60 00	25 00
8	Blanshard Municipal Telephone System	S. Adamson	R.R. 6, St. Marys	1924	1,157	263	1,206	66,277	11,186 63	10,697 65
377	Blind Line Telephone Co., Ltd.	Robt. I. Jolley	Woodford	1911	10	7½	15	920	103 63	83 52
291	Blyth Municipal Telephone System	Jas. D. Moody	Blyth	1911	590	178	631	88,182	9,409 71	7,567 93
146	Boat Lake Telephone Co., Ltd.	Jas. Patterson	Wiarton	1918	14	3	6	750	142 33	142 33
467	Bobcaygeon Rural Telephone Co., Ltd.	Geo. W. Taylor	Bobcaygeon	1914	106	53	108	4,009	1,613 82	1,302 59
175	Bognor Telephone Co., Ltd.	Wm. G. Jack	R.R. 1, Bognor	1909	12	12	24	660		
7	Bolton Telephone Co., Ltd.	Robert Smith	Bolton	1908	804	190	900	52,372	12,475 97	10,784 28
85	Bond's Corners Telephone Co., Ltd.	Alex. Amos	R.R. 5, Woodstock	1909	13	2	4	425	166 30	189 25
665	Bonfield Telephone Co., Ltd.	J. G. O'Connor	Bonfield	1920	26	9	18	1,311	108 50	111 12
116	Border Lumber Co., Ltd.	A. J. Mathieu	Rainy Lake	1922	3	4	8	209	Private system, no revenue	
378	Bousfield Telephone Line	G. E. Bousfield	Milton	1909	4	Leased from B. T. Co.		125	20 00	20 00
215	Bracebridge & Muskoka Lakes Tel. Co., Ltd.	Peter Hutchison	Bracebridge	1907	69	45	208	15,053	4,520 55	3,540 63
163	Bracebridge & Northwood Tel. Co., Ltd.	R. Meeks	Bracebridge	1922	10	5	5	1,242	100 00	100 00
119	Brant Telephone Co., Ltd.	Jas. E. Metcalfe	Hanover	1920	15	5	10	650	128 00	111 41

TELEPHONE SYSTEMS—*Continued*

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
164	Brighton Municipal Telephone System	Fred. O. Wade	R.R. 1, Brighton	1913	451	147	634	34,000	8,465 61	8,813 24
677	Brockville Road Rural Tel. Co., Ltd	Peter M. Hunter	Smith's Falls	1920	18	7	14	1,260	135 00	140 02
276	Bromley Line Telephone Assn., Ltd	Jean M. Forrest	Douglas	1911	86	25	25	4,050	500 00	506 76
334	Brooke Municipal Telephone System	A. R. Chapman	Inwood	1911	983	214	871	93,977	15,383 95	15,636 92
217	Brougham & Grattan Telephone Co., Ltd	H. M. Legris	Dacre	1907	11	18	36	2,100	222 50	113 10
363	Bruce Municipal Telephone System	N. T. Jones	Kincardine	1912	1,490	399	1,263	149,994	33,365 74	27,776 80
131	Brudenell Telephone Co., Ltd	Jas. H. Carty	Brudenell	1922	5	8	11	1,200	65 65	63 50
437	Brudenell & Lyndock Municipal Tel. System	Simon Finnerty	R.R. 1, Killaloe	1924	24	26	64	3,232	System in course of construction.	
205	Brussels, Morris & Grey Mun. Tel. System	A. H. Macdonald	Brussels	1909	1,041	264	792	83,838	13,326 41	10,267 88
9	Burnt River Telephone Co., Ltd	Wm. Jas. Hulbert	Burnt River	1909	127	60	220	8,000	2,318 06	2,417 14
218	Byron Telephone Co., Ltd	J. H. Matthews	Delaware	1906	788	238	1,000	40,000	16,553 00	15,252 49
468	Calabogie & Renfrew Telephone System	W. P. J. Derham	Renfrew	1911	58	24	80	4,381	1,454 23	890 14
156	Caledon Municipal Telephone System	W. J. Warnock	Caledon	1919	325	160	335	33,411	6,746 25	7,083 12
238	Cambray Telephone Co., Ltd	Angus Gillies	R.R. 4, Woodville	1908	289	85	103	10,331	2,492 19	1,186 15
13	Camden Independent Telephone Co., Ltd	Thos. I. Winter	Newburgh	1910	214	64	228	9,096	2,937 00	2,178 00
469	Cameron Telephone Co., Ltd	Mrs. Louise Perrin	Cameron	1914	120	32	45	4,800	586 79	602 91
661	Camperdown Telephone Co., Ltd	A. E. Reekie	Camperdown	1920	9	5	10	800	70 00	101 38
117	Canadian Explosives, Ltd	J. C. Smith	Montreal, P.Q.	1915	1	C.P.R. Poles	9	.....	15 74	40 00
10	Canadian Machine Tel. Co., Ltd., Brantford									
11	Canadian Machine Tel. Co., Ltd., Peterboro	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	Canadian Machine Tel. Co., Ltd., Lindsay									
14	Caradoc Ekfrid Telephone Co., Ltd	A. S. McDougall	Melbourne	1907	925	224	416	27,850	3,940 54	1,477 55
401	Carholme & Walsingham Telephone Co	Walter Kreiss	Silver Hill	1908	18	7	7	330	146 57	180 01
684	Carlow Municipal Telephone System	J. W. Hudson	Boulter	1922	53	40	67	8,200	504 43	550 79
177	Carlsruhe Telephone Association	Charles Schwan	Carlsruhe	1904	4	4½	9	300	60 00	47 00
71	Cauthers Telephone System	W. C. Cauthers	Mansfield	1915	33	16	16	.....	330 00	75 00
593	Cavan Rural Telephone Co., Ltd	D. J. Hunter	Cavan	1917	53	15	30	2,348	851 75	503 01
110	Centralia Mount Carmel Tel. Co., Ltd	S. Davis	224 Richmond St., London	1900	36	12	26	3,850	556 00	340 80
672	Centre Road Telephone Co., Ltd	J. G. Campbell	R.R. 1, Annan	1912	29	16	32	2,027	357 88	377 01
241	Centre Thorah Telephone Co., Ltd	Hugh McMillan	Beaverton	1909	17	8	16	600	98 08	120 98
381	Champlain Point Telephone Co., Ltd	.....	.....	.....	.....	.....	.....	.....	.....	.....
526	Chapple Municipal Telephone System	Thos. Hood	Barwick	1915	166	98	272	15,174	3,935 44	4,210 19
242	Chapleau Automatic Telephone Co., Ltd	W. P. Spero	Chapleau	1924	240	.....	.....	33,025	4,667 50	3,230 14

86	Chatsworth Rural Telephone Co., Ltd.	A. A. Merriam	Chatsworth	1909	118	41	131	6,930	1,784 20	1,059 90
138	Chelmsford Telephone System	R. V. Tremblay	Chelmsford	1916	37	39	41	8,000	1,220 00	1,311 87
292	Chinguacousy Municipal Tel. System	W. D. Bowles	Mono Road	1911	632	170	1,600	37,000	11,826 33	11,689 86
382	Chippawa Hill Telephone Co., Ltd.	J. F. Nickason	R.R. 1, Southampton	1913	26	11	28	1,858	422 52	357 56
650	Chippewa Rural Telephone Co.	Joseph Dillon	Enterprise	1917	13	12	24	1,287	10 00	16 00
180	Chisholm Municipal Telephone System	R. W. Butler	Alderdale	1917	39	34	68	6,000	745 04	533 40
689	Christie Municipal Telephone System	Wells Thompson	Orrville	1922	46	24	75	6,132	1,036 26	1,077 13
379	Clarendon Telephone Co.	Robert H. Francis	Oso Station	1920	13	17	17	400	85 00	85 33
489	Clavering Telephone Co., Ltd.	A. J. Smith	Clavering	1913	33	9	18	1,650	332 02	322 22
46	Cochrane Municipal Telephone System	Frank Graff	Cochrane	1920	329	3½	216	46,739	10,833 71	9,227 95
147	Coe Hill Rural Telephone System	C. S. Rollins	Coe Hill	1906	30	16	32	3,000	722 85	761 91
311	Colborne Municipal Telephone System	E. V. Lawson	Goderich	1910	171	46	75	10,500	2,702 13	1,865 45
206	Colchester North Mun. Tel. System	T. W. Weyburn	Essex	1909	328	72	153	14,872	3,901 36	3,647 82
25	Cold Springs Rural Telephone Co., Ltd.	Archie Bowman	Plainville	1918	295	60	320	4,600	2,987 57	2,715 17
655	Coldstream Telephone System	A. G. McKenzie	R.R. 2, Ilderton	1908	289	100	250	15,000	3,994 00	3,559 97
527	Coldwater Municipal Telephone System	Howard Elliott	Coldwater	1916	122	¼	7	11,946	3,079 76	2,471 94
380	Conboy Telephone System	H. A. Conboy	Sharbot Lake	1909	23	15	30	2,220	304 00	99 00
16	Conn Telephone Co., Ltd.	Chas Duncan	Conn	1903	143	41	85	7,350	1,025 10	792 53
505	Connaught Telephone Association	Wm. O. Kane	Cobden	1914	16	12	12	1,020	131 00	131 00
407	Cormac & Eganville Telephone Co., Ltd.	Rev. J. N. George	Cormac	1923	3	13	26	1,125	66 60	31 88
87	Coulson Jarratt Telephone Co., Ltd.									
528	Cramahe Municipal Telephone System	F. A. Black	Vernonville	1916	338	218	650	36,000	7,289 92	7,687 59
88	Crediton Rural Telephone System	Dr. J. W. Orme	Crediton	1910	232	43	162	1,450	4,000 80	2,699 70
604	Cresswell Telephone Co.	Ellsworth Davey	Cresswell		Amalgamated with Manilla Union Tel. Co., Ltd.					
140	Crews Telephone Co., Ltd.	W. H. Crews	R.R. 6, Trenton	1908	10	5½	11	750	69 58	61 58
29	Crown Hill Telephone Co., Ltd.	A. B. Coutts	Barrie	1915	120	29	68	8,150	2,004 91	2,191 62
575	Cultus & Marston Telephone Co.	Chalmers Abbott	R.R. 2, Langton	1911	14	9	9	300	39 60	39 60
529	Daoust Telephone System	A. Daoust	Noelville	1915	42	25	25	2,150	600 00	100 00
356	Dawn Municipal Telephone System	I. J. Harrison	R.R. 4, Dresden	1911	377	118	468	22,330	5,827 70	4,850 12
623	Dawson Township Telephone Co., Ltd.	Geo. Bromley	Meldrum Bay	1919	17	13	13	740	24 00	23 96
89	Derby Telephone Co., Ltd.	W. H. Hilts	Kilsyth	1909	121	23	54	7,551	2,310 46	2,160 73
90	Desboro Telephone Co., Ltd.	E. F. Urstadt	Desboro	1900	153	48	166	5,450	1,716 89	1,264 80
298	Desboro Moresburg Telephone Co., Ltd.	Walter W. Mair	R.R. 1, Desboro	1914	20	12	24	565	111 00	111 00
530	Desmond Rural Telephone Co.	Alf. M. Bell	Moscow	1906	12	6½	13	1,050	116 51	64 45
185	Dingwall Telephone Co., Ltd.	Alex. Ross	R.R. 3, Woodstock	1913	10	3	7	333	114 44	114 44
310	Doane Telephone Association	Chas. F. Doane	Newmarket	1909	24	6	14	2,894	276 00	200 00
568	Doe Lake Telephone Co., Ltd.	Harold Hammond	Gravenhurst	1917	8	1½	3	600	81 83	82 23
531	Dominion Wood & Lumber Co., Ltd.	J. M. Snyder	Kitchener	1912	6	7	7	500	Private line no revenue	
309	Donegal Telephone Co., Ltd.	Jas. Howard	Eganville	1919	22	15	15	3,300	110 00	114 20
503	Dore Bay Telephone Co., Ltd.	Wm. Sack	R.R. 6, Eganville	1914	30	.....	24	1,500	223 87	223 87
136	Douro Municipal Telephone System	Maurice Condon	R.R. 4, Lakefield	1920	97	50	115	11,791	1,937 49	1,904 08
383	Dover Municipal Telephone System	John Grant	Eberts	1909	458	80	350	24,455	9,629 47	9,175 74
143	Drummond and Emsley Tel. Association	Cameron S. McTavish	R.R. 1, Perth	.....	14	10	20	1,200	131 40	50 74

TELEPHONE SYSTEMS—*Continued*

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
244	Drummond Centre Telephone Co., Ltd.	J. Bailey Code	R.R. 6, Perth	1909	118	144	588	11,600	1,513 47	1,858 86
510	Dryden Municipal Telephone System	J. E. Gibson	Dryden	1920	94	7	17	10,190	2,626 00	2,347 65
235	Dummer Municipal Telephone System	C. J. Darling	R.R. 2, Warsaw	1921	190	89	346	19,666	.....	.....
683	Dungannon Municipal Telephone System	Thos. Turriff	Detlor	1922	50	35	52	11,391	13,500 00	13,496 85
598	Dunnett Municipal Telephone System	R. H. Wilson	Warren	1918	48	15	15	2,514	604 79	730 73
219	Dunnville Consolidated Telephone Co., Ltd.	Margaret P. Harrison	Dunnville	1907	1,700	284	918	121,310	34,071 46	31,433 50
304	Dunsford Telephone, Light & Power Co-op. Assn., Ltd.	John B. Kennedy	Dunsford	1907	186	77	246	11,622	3,270 19	2,015 65
18	Dunwich & Dutton Telephone Co., Ltd.	John R. Cameron	Box 84, Dutton	1906	244	82	244	9,147	2,975 21	2,666 46
609	Durham Road Telephone Co., Ltd.	Robert Goode	Walkerton	1918	15	3	6	1,387	66 00	87 00
687	Dysart Municipal Telephone System	Arthur Batchelor	Haliburton	1922	120	35	157	19,465	2,836 01	2,722 04
174	East Darlington Telephone Co., Ltd.	W. W. Down	Bowmanville	1915	8	3	6	500	102 60	102 60
384	East Grey Telephone Co., Ltd.	Dr. L. G. Campbell	Markdale	1904	55	22	55	6,000	1,053 79	780 98
341	East Luther Telephone Co., Ltd.	Wm. McKinley	Grand Valley	1902	382	65	238	10,265	3,473 00	2,441 57
19	East Middlesex Telephone Co., Ltd.	K. M. Whitehead	Thorndale	1906	492	131	343	43,341	8,340 25	5,667 92
460	East Woodville Telephone Co., Ltd.	A. E. Benson	Woodville	1913	25	8¼	16½	1,790	197 40	225 05
324	Edgar Tel. Co., Ltd., The Robert Henry	Robert Henry Edgar	R.R.1, Waldemar	1906	395	164	245	11,000	1,400 00	1,400 00
322	Egypt Telephone Co., Ltd.	John D. Windatt	Beaverton	1919	16	5½	11	1,450	121 00	116 84
386	Eldon Union Telephone Co., Ltd.	J. P. Campbell	Woodville	1912	91	22	44	4,545	1,151 14	720 71
280	Elgin Chaffey's Locks Telephone Co	Mrs. W. H. Fleming	Chaffey's Locks	1909	1	13	13	1,000	27 50	40 72
513	Elizabeth Bay Mutual Telephone Co.	Jas. F. Blackburn	Elizabeth Bay	1912	11	9	9	333	27 24	27 24
336	Elliott Private Telephone Line	Jas. Elliott, Jr	519 Wellington St. W.,Sault Ste.Marie	1908	6	1	2	100	72 00	72 00
387	Ellis Rural Telephone Co	J. H. Drew	Cannington	1911	10	4½	4½	500	65 00	65 00
66	Elmsley South Rural Telephone Co., Ltd.	Louise Klyne	Lombardy	1914	75	65	133	5,000	1,051 82	756 79
176	Elmtree Telephone System	R. Kellar	Elmtree	1920	4	6	6	110	20 60	8 00
556	Emily Municipal Telephone System	Moses Ruth	Omemee	1918	244	175	462	29,565	5,007 63	5,224 42
520	Emo Municipal Telephone System	E. T. McComb	Emo	1914	229	102	334	17,500	6,904 14	4,103 16
145	Ennismore Municipal Telephone System	D. J. Scollard	Ennismore	1920	108	65	120	24,224	3,307 88	3,096 28
600	Enterprise Telephone Co., Ltd.	W. T. Jackson	Enterprise	1921	76	16	32	4,320	1,132 50	1,114 39
21	Erie Telephone Co., Ltd.	E. G. Hoover	Selkirk	1906	1,701	309	1,084	113,962	31,977 60	31,861 73
166	Erin Municipal Telephone System	Richard Bryan	R.R. 1, Hillsburg	1921	408	172	344	43,830	9,815 77	12,462 00
20	Ernestown Rural Telephone Co., Ltd.	S. M. Reid	Odessa	1909	361	100	400	20,853	6,685 45	5,617 60
357	Euphrasia Municipal Telephone System	T. I. Fawcett	R.R. 2, Markdale	1912	149	36	72	13,000	2,476 73	3,153 23
583	Evansville Mutual Telephone Co	D. N. Bailey	Evansville	1913	28	14	14	784	83 00	83 00

532	Everett Telephone Co., Ltd.	Andrew R. Kid	Everett	1915	74	26	65	5,555	1,549 47	1,569 87
388	Evergreen Telephone Co., Ltd.	Patrick Harty	Douglas	1911	8	9	9	750	32 00	32 00
592	Excelsior Telephone Co., Ltd.	Alfred Carr	R.R.1,Woodstock	1910	23	6	20	1,320	345 00	223 00
533	Fairview Telephone Co., Ltd.	John L. Silcox	R.R. 7,Woodstock	1908	11	3	6	400	120 00	120 00
680	Fairyport Telephone Line	E. J. Ecclestone	Huntsville	1921	27	13	42	4,565	502 25	421 50
281	Falkirk Telephone Co., Ltd.	Geo. L. Shipley	R.R. 3, Denfield	1907	280	110	165	17,250	5,336 75	5,021 09
590	Fallis Line Telephone Co., Ltd.	Nathaniel Belch	R.R. 3, Millbrook	1904	18	6	12	900	94 65	94 65
621	Faraday Municipal Telephone System	F. A. Towle	Bancroft	1919	39	30	30	4,800	604 50	572 69
472	Farmer Private Telephone Line	G. H. Farmer	R.R. 2, S.S. Marie	1908	2	2	.....	400	Priv. Line no reven'e	.....
22	Fenella Rural Telephone Co., Ltd.	C. H. Brisbin	Fenella	1910	65	40	40	3,000	494 01	374 88
534	Fenelon Rural Telephone Association	John Smitheram	Fenelon Falls	1914	14	8	16	398	76 00	20 00
517	Ferry Road Telephone Co., Ltd.	Mrs. Wm. J. McLean	R.R. 5, Perth	1917	61	32	91	10,378	1,026 60	1,253 55
389	Fifth Line Telephone Co., Ltd.	S. E. Tuck	R.R. 1, Bognor	1912	15	13	26	1,050	135 51	135 51
327	Fifth Side Line Telephone Association	Peter Bergan	Fenby Bay	1901	6	8	8	300	46 00	47 00
221	Fingal Telephone Co., Ltd.	Neil D. Munro	Fingal	1909	297	85	312	5,850	3,900 00	3,934 19
451	Flos Municipal Telephone System	Chas. S. Burton	Elmvale	1913	581	132	523	35,977	10,134 07	11,529 91
28	Forest Home Telephone Co., Ltd.	Edmund Moon	R.R. 1, Orillia	1914	18	14	28	1,200	152 00	160 55
313	Fort Frances Municipal Telephone System.	Alex. McNaughton	Fort Frances	1913	492	.....	535	23,493	12,550 15	9,580 15
202	Fort William Municipal Tel. System	H. James	Fort William	1902	4,428	12½	15,349	357,165	113,539 60	95,550 85
392	Foster Bros. Telephone Co., Ltd.	Jas. W. Donohue	Tyndford	1920	12	9	18	2,715	114 00	139 65
237	Fourteenth Brant Telephone Co., Ltd.	N. M. Shouldice	Chesley	1911	14	4½	9	615	140 74	140 74
535	Fourth Line Telephone Association	Walter Peever	R.R.1,Haley's Stn.	1914	13	7	14	622	129 18	124 11
155	Fourth Line of Bathurst Tel. Co., Ltd.	A. B. McLean	R.R. 4, Perth	1912	7	1	2	300	59 80	59 80
282	Fraser Telephone Co., Ltd.	H. Kirkpatrick	Woodstock	1910	13	3	6	650	160 39	160 39
283	Fretts & Brisco Telephone System	W. G. Fretts	Napanee	1908	9	9	18	400	60 00	77 00
516	Front Road Telephone Association	Walter Wright	Cobourg	1901	6	Leased from Bell T. Co.			85 00	84 75
325	Gawas & Shore Road Telephone Co.	Geo. Furky	Richards Landing.	1908	14	10	10	900	20 00	5 40
92	Gillies Hill Telephone Co., Ltd.	James Crerar	Chesley	1909	17	6½	13	1,851	149 90	129 90
307	Gillies Telephone System	Wm. Gillies	Lion's Head	1899	278	243	287	15,000	4,727 06	4,747 53
344	Glasgow Private Telephone System	A. E. Glasgow	Cannamore	1910	364	100	420	44,140	6,675 66	4,314 40
458	Glen Eden Telephone Co., Ltd.	John Buckley	R.R.1,Owen Sound	1912	14	4	8	400	120 26	120 26
664	Glenelg Municipal Telephone System	Thos. J. Brodie	Holland Centre	1922	64	30	82	7,105	927 00	2,225 06
93	Glengarry Telephone Co., Ltd.	M. J. Morris	Alexandria	1917	307	104	221	27,000	4,808 11	3,774 15
587	Glenview Rural Telephone Co., Ltd.	J. L. Jordan	R.R.3, Smith's Fls.	1917	51	35	70	4,806	592 38	581 56
673	Gloucester Township Telephone Co., Ltd.	J. O. Hodgson	Carlsbad Springs.	1909	16	5	10	600	150 85	150 85
222	Goderich Rural Telephone Co., Ltd.	Thos. Stothers	Dungannon	1910	623	158	1,122	53,235	11,425 87	7,359 70
207	Goderich Municipal Telephone System	Chas. E. Wise	R.R. 3, Clinton	1909	315	95	190	25,808	2,863 78	2,698 58
418	Golden Rule Telephone Co., Ltd.	John E. Wright	Dean Lake	1924	15	13	26	1,200	375 00	105 00
647	Gooderham Telephone Association	Gordon D. Lake	Gooderham	1913	8	½	½	175	.....	.....
536	Goodwood Rural Telephone Co., Ltd.	C. F. R. Taylor	Carleton Place	1915	236	75	468	23,482	3,433 31	2,451 96
506	Gordon Telephone Co., Ltd.	Wm. L. Strain	Foxey	1910	36	13	17	800	201 23	164 82
154	Gore Bay Municipal Telephone System	Fred. W. Major	Gore Bay	1914	116	.....	30	6,750	2,863 55	2,976 80

TELEPHONE SYSTEMS—*Continued*

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
599	Gore "G" Telephone Co., Ltd.	Garfield Pearsall	R.R. 3, Picton	1917	18	7½	11	1,684	150 00	180 08
246	Gore Mutual Telephone Co., Ltd.	F. C. Quick	Harrow	1908	12	1½	1½	714	116 28	118 53
208	Gosfield North Municipal Tel. System	S. H. Wyatt	Cottam	1908	365	56	177	22,660	6,398 12	6,144 58
442	Goulais Bay Telephone Co., Ltd.	Mrs. L. T. E. James	Goulais Bay	1912	20	28	55	3,980	326 65	303 13
676	Grattan No. 7 Telephone Assn., Ltd.	Wm. Kumm	R.R. 4, Eganville	1921	20	15	30	3,600	89 20	89 20
345	Green Hill Telephone System	L. M. Mercer	Markdale	1909	16	5	10	2,578	240 00	209 94
247	Greenwood Telephone Association, Ltd.	Roy F. White	R.R.2, S.S. Marie	1910	15	4¼	13	700	195 50	172 31
37	Grimston Telephone Co., Ltd.	A. H. Mills	Dobbinton	1924	8	9	18	694	In course of const'n	
274	Grunwald Private Telephone Line	J. W. White	Huntsville	1912	18	5	10	1,512	340 85	277 77
134	Hagarty Municipal Telephone System	E. Hayes	Killaloe	1922	52	18½	37	8,183	2,560 16	1,534 94
537	Haldimand Municipal Telephone System	F. W. Hare	R.R. 5, Cobourg	1916	210	50	200	21,000	5,139 71	4,297 55
23	Haldimand Rural Telephone Co., Ltd.	Thos. Hardcastle	R.R. 3, Cobourg	1906	220	78	139	10,500	4,585 90	5,473 45
391	Haley's Station Rural Tel. Assn., No. 1	E. Foss	Cobden	1913	19	10	20	1,384	27 20	41 10
594	Haley's Station Rural Tel. Assn., No. 2	R. Gould	Haley's Station	1913	7	6	12	400	1 75	3 60
24	Halton Telephone Co., Ltd.	W. E. Ford	Milton	1909	323	101	411	18,865	5,264 75	4,634 22
626	Hampshire Telephone Co., Ltd.	Peter Gray	R.R. 4, Orillia	1918	14	7½	17	1,061	123 28	168 42
26	Harrietsville Telephone Association, Ltd.	C. B. Adams	Harrietsville	1903	575	141	519	15,943	11,085 89	9,814 79
306	Hartman Private Telephone Line	C. W. Hartman	Clarksburg	1912	8	1	1	200	Priv. Line no revenue	
359	Harvey Municipal Telephone System	Jno. P. Smith	R.R. 1, Peterboro	1911	57	35	70	3,862	862 87	808 10
94	Harwood Rural Telephone Co., Ltd.	F. A. McFarland	R.R. 1, Baltimore	1907	39	27	32	1,864	717 50	777 24
538	Hawley Telephone Co., Ltd.	John Craven	Bath	1913	18	7	14	950	201 00	201 00
346	Hawthorne Hill Rural Telephone Co., Ltd.	G. Y. Donaldson	Palmerston	1908	206	60	216	11,200	3,296 00	2,226 12
173	Hay Township Municipal Telephone System	Andrew F. Hess	Zurich	1912	672	165	526	38,470	9,794 82	8,752 35
27	Hazeldean Rural Telephone Co., Ltd.	Bert G. Grant	Stittsville	1909	218	61	300	25,435	4,158 24	2,908 08
499	Head Lake Telephone Co., Ltd.	Arthur Davis	R.R. 1, Kirkfield	1913	12	10	20	600	16 00	31 10
269	Henderson (Dr.) Telephone Co., Ltd.	Dr. W. J. Henderson	Cannington	1905	29	17	17	1,000	319 00	220 50
607	Herrington Telephone System	Thos. H. Herrington	Napanee	1915	30	8	16	1,200	372 00	265 00
139	Hilliard Municipal Telephone System	Geo. Harrison	Box 36, Thornloe	1921	65	34	105	8,296	1,044 50	1,089 24
393	Hoath Head & Grey Telephone Co., Ltd.	Neil McDonald	R.R. 6, Owen Snd.	1911	35	11	42	1,575	350 00	320 12
228	Home Telephone Co., Ltd.	D. R. Beaton	Whitevale	1905	1,642	474	1,602	146,921	38,969 98	39,113 14
239	Hope Lumber Company, Limited	P. A. Campbell	Box 744, Sault Ste. Marie	1917	8	17½	35	978	769 44	775 91
572	Hogg and Lytle Telephone System	E. G. Lytle	Oakwood	.....	.....	.....	.....	.....	.....	.....
95	Hopetown Telephone Co., Ltd.	Wm. B. Donald	McDonald's Cnrs.	1908	227	136	231	16,150	2,610 41	2,555 95
96	Horton McNab Telephone Association, Ltd.	James Miller	Glasgow Station	1909	140	68	170	5,000	1,771 75	1,124 45

331	Houghton & Bayham Telephone Co., Ltd..	David L. Finch.....	R.R. 2, Pt. Burwell	1906	195	65	123	2,650	1,810 85	1,378 10
97	Houghton, Bayham & Tillsonburg Telephone Association, Ltd.....	John Clark.....	Straffordville.....	1907	146	70	113	6,700	1,283 73	1,366 84
248	Houghton & South Walsingham Tel. Assn.	Chelsea Louch.....	Pt. Burwell, R.R. 2	1909	62	14	60	2,400	930 00	687 51
157	Howick Municipal Telephone System.....	J. H. Rogers.....	Fordwich.....	1923	307	72	254	10,105	6,282 36	5,583 24
477	Howland Municipal Telephone System....	J. H. Skippen.....	Sheguindah.....	1918	79	55	55	3,243	370 85	350 37
648	Hugel Mutual Telephone Co.....	E. A. Bartlett.....	Warren.....	1918	14	8	8	900	33 26	26 74
478	Humphrey Municipal Telephone System...	A. A. Young.....	Rosseau.....	1922	100	20	120	10,835	2,898 30	2,786 36
194	Hungerford Municipal Telephone System..	E. Cassidy.....	Bogart.....	1923	29	10½	25	3,236	164 88	164 88
539	Huntsville & Lake of Bays Tel. Co., Ltd..	F. A. Emberson.....	Hillside.....	1915	50	138	138	6,989	1,382 03	1,338 91
170	Huntsville & Portage Telephone System...	W. J. Moore.....	Huntsville.....	1907	40	23	150	7,903	1,835 90	1,668 11
360	Huron & Kinloss Municipal Tel. System...	Ross H. Martyn.....	Ripley.....	1911	690	134	876	58,484	11,394 99	8,331 51
160	Hymers Telephone System.....	Geo. E. Hymers.. ..	Hymers.....	1906	5	..	26	1,600	350 05	400 00
675	Hyndford-Douglas Telephone Assn., Ltd...	Wesley Andrews.....	Hyndford.....	1919	16	7	15	1,462	57 02	78 27
149	Hyndman Telephone System.....	Dr. H. K. Hyndman..	Exeter.....	1907	104	32	64	6,500	1,560 00	1,597 29
519	Ice Lake Telephone Co., Ltd.....	Andrew A. Robertson.	Ice Lake.....	1913	36	21½	50	1,625	292 15	198 48
540	Indian River Telephone Co.....	Wm. H. O'Meara.....	Pembroke, R.R. 7.	1914	10	5	10	680	99 84	72 35
31	Ingersoll Telephone Co., Ltd.....	E. F. Waterhouse.....	Ingersoll.....	1907	1,761	188	3,497	212,364	38,425 97	34,521 18
98	Ingleside Telephone Co., Ltd.....	Thos. P. Hart.....	R.R. 8, Woodstock	1909	20	3	11	1,487	300 00	278 70
99	Innerkip Telephone Co., Ltd.....	Z. M. Hotson.....	Innerkip.....	1906	597	155	667	40,695	13,428 08	12,463 25
100	Innisfil Telephone Co., Ltd.....	Walter S. Reive.....	Churchill.....	1910	117	30	113	7,062	2,301 40	2,139 28
645	Iron Bridge Telephone Co., Ltd.....	Mrs. Will Bovill.....	Dayton.....	1920	38	27	55	6,175	494 71	502 87
394	Ivy Thornton Telephone Co., Ltd.....	W. H. Hatton.....	Utopia.....	1909	205	60	224	12,500	3,078 16	2,687 79
395	Jackson Telephone Co., Ltd.....	Peter Garvie.....	Kilsyth.....	1916	90	23	100	7,630	1,714 60	1,183 69
320	Jocelyn Municipal Telephone System.....	H. E. Crowder.....	Carterton.....	1902	17	15	15	1,000	138 00	166 25
285	Johnston & Brandon Telephone Line.....	Lorne Beatty.....	Cannington.....	1907	14	9	18	500	60 00	60 00
455	Johnson Municipal Telephone System.....	Miss T. W. Bretz.....	Desbarats.....	1913	91	20	40	4,414	1,250 14	1,411 95
396	Kaladar & Northern Telephone Co.....	S. G. Both.....	Northbrook.....	1910	17	31	36	2,100	275 00	180 00
591	Kemble & Sarawak Telephone Co., Ltd...	Chas. Husband.....	Kemble.....	1916	133	30	60	9,000	1,634 25	1,618 90
204	Kenora Municipal Telephone System.....	F. J. Hooper.....	Kenora.....	1902	1,105	13	704	78,980	22,592 45	18,463 86
627	Keppel Rural Telephone Co., Ltd.....	Edwin Cribbis.....	R.R. 2, Wiarton..	1918	22	5½	17	1,691	153 09	153 09
541	Kerr Line Telephone Co., Ltd.....	R. J. Headrick.....	Foresters Falls....	1911	110	35	35	4,493	251 56	1,110 98
586	Kerns Municipal Telephone System.....	E. Sackrider.....	R.R.1, N.Liskrd..	1916	153	73	190	16,637	4,978 91	4,801 19
397	Kingston Road Rural Telephone Assn.....	Chas. H. Mallory....	R.R. 5, Cobourg..	1911	10	½	1	400	87 20	87 20
263	Kirkegaard Private Telephone Line.....	Price, Cochrane & Co.	Sun Life Bldg., Toronto.....	1912	2	6	6	500	Did not operate in 1924	
628	Korah Base Line Telephone Co., Ltd.....	John A. Holmberg....	R.R. 1, S. S. Marie	1919	13	15	30	1,386	129 00	129 00
209	Korah Central Telephone Co., Ltd.....	R. M. Moore.....	R.R. 1, S. S. Marie	1922	40	22	44	4,300	866 07	757 05
608	La Cloche Telephone Co., Ltd.....	W. G. Emiry.....	Massey Station...	1915	13	13½	27	1,085	143 00	74 71
302	Laird Municipal Telephone System.....	Newman Johnston....	Laird.....	1909	159	58	98	9,153	1,291 50	1,268 96
444	Lake of Bays & Haliburton Tel. Co., Ltd..	Jas. D. Smith.....	Baysville.....	1910	28	33	66	3,001	944 45	858 45

TELEPHONE SYSTEMS—*Continued*

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
656	Lake Charles Telephone Co., Ltd.	W. A. Shier	R.R. 2, Wiarton	1921	45	15	40	3,600	527 97	423 32
101	Lake Shore Mutual Telephone Co., Ltd.	H. M. Cameron	R.R. 1,Kincardine	1919	40	19	55	2,000	354 11	378 40
399	Lambeth Telephone Co., Ltd.	B. L. Baulch	London	1912	Sold to The Byron Tel Co., Ltd.					
60	Lambton Telephone Co., Ltd.	Edna Hurley	Sombra	1911	193	45	180	13,081	3,697 16	2,634 83
225	Lanark & Carleton Counties Tel. Co., Ltd.	John B. Wylie	Almonte	1909	363	154	585	28,296	6,814 09	5,531 79
102	Lanark & Ramsay Telephone Co., Ltd.	R. M. Ruttle	R.R. 1, Carleton P.	1909	65	38	83	5,000	602 50	557 21
226	Lansdowne Rural Telephone Co., Ltd.	S. E. Johnston	Lansdowne	1906	417	87	882	19,800	4,921 30	4,683 30
484	La Vallee Municipal Telephone System.	S. B. Mattoon	R.R. 1, Devlin	1914	189	124	877	14,020	3,798 86	2,769 54
249	Lavant Dalhousie Telephone Co., Ltd.	James Park	Poland	1909	83	59	146	4,000	910 80	703 17
315	Lavant & Denbigh Telephone System	John D. Flake	Plevna	1921	106	132	132	9,950	1,314 60	788 00
606	Lee Valley Rural Telephone Co., Ltd.	Ian A. McMillan	R.R. 1, Webbw'd.	1914	30	20	40	2,400	103 80	199 60
103	Leeds & Frontenac Rural Tel. Co., Ltd.	C. C. Gilbert	Seeley's Bay	1908	569	135	1,060	26,460	6,237 13	5,304 47
33	Leeds & Grenville Ind. Telephone Co., Ltd.	Miss Berenice M. Eyre	North Augusta	1908	694	222	597	28,028	12,393 13	12,328 77
104	Leith & Annan Telephone Co., Ltd.	A. Cameron	Leith	1908	90	50	100	6,915	971 55	1,340 49
34	Lennox Telephone Co., Ltd.	Thos. Gould	Napanee, R.R. 3.	1908	83	30	140	8,062	1,534 23	1,098 37
400	Lightning Telephone Co., Ltd.	Mack Dick	Grattan	1921	14	11	22	1,500	100 20	100 20
152	Lily Creek Telephone Co.	J. F. McKinnon	R.R. 2, Marmora.	1922	9	3	12	900	53 00	58 00
82	Little Britain Telephone Co., Ltd.	F. O. Cooper	Little Britain	1910	242	98	98	1,075	4,489 01	3,246 83
616	Livingstone Rural Telephone Co., Ltd.	J. D. McLennan	R.R. 2, Thessalon	1918	46	20	28	2,050	199 25	199 25
342	Loch End Ranch Private Telephone Line.	W. R. Caldwell	Carleton Place	1923	1	½	2	240	Priv. Line no revenue	
416	London Township Municipal Tel. System.	J. A. Hughes	R.R. 3, Ilderton	1923	427	147	482	25,613	8,812 24	8,702 16
64	Lorne Power Company, Ltd.	C. V. Corless	Coniston	Included in report of Mond Nickel Company, Ltd.						
184	Low Banks Telephone Co., Ltd.	Clarence Barrick	Lowbanks	1905	24	4	4	500	101 35	101 35
350	Lower Bonnechere Telephone Co., Ltd.	Wm. J. Sadler	Eganville	1922	10	6	12	1,200	62 50	60 75
187	Lucknow & Kinloss Telephone Co.	H. C. Lane	R.R. 1, Holyrood.	1908	18	18	18	1,000	214 64	205 02
300	Lyndhurst Rural Telephone Co., Ltd.	T. C. Robb	Lyndhurst	1909	280	67	337	19,000	5,480 45	4,085 26
271	Lyons Private Telephone Line	A. A. Lyons	Markdale	1907	58	17½	39	5,390	720 00	615 00
337	Maberly Telephone Co., Ltd.	L. V. Wood	Maberly	1912	43	16	71	3,159	710 40	557 23
497	MacDonald Municipal Telephone System.	Edw. Hutchison	Echo Bay	1911	72	32	90	4,500	698 85	660 73
408	Macdonald Telephone Co.	C. Ostrander	Trenton	1912	27	9	27	1,968	240 00	240 00
105	Madawaska Telephone Association, Ltd.	Mrs. Kate Holbein	Burnstown	1909	64	28	56	2,966	929 38	626 47
635	Magnetawan Municipal Telephone System.	H. Q. Snuggs	Magnetawan	1921	189	95	257	25,587	4,782 51	3,507 60
210	Maidstone Municipal Telephone System.	A. Mousseau	Woodslee	1908	426	100	500	60,485	6,582 55	6,288 90
35	Malahide & Bayham Telephone Assn., Ltd.	N. H. McConkey	Straffordville	1909	411	95	250	8,220	5,633 93	4,758 82
227	Mallorytown Telephone Co., Ltd.	D. S. Mallory	Mallorytown	1916	263	96	300	25,000	4,063 98	3,833 08

522	Manilla Union Telephone Co., Ltd.	A. A. Dixon	Manilla	1908	181	57	108	6,500	1,531 65	1,464 96
620	Manilla Western Telephone Co.	Jas. Wright	R.R. 3, Sunderl'nd	1911	Amalgamated with Manilla Union Tel. Co., Ltd.					
582	Manitoulin Island Rural Tel. Co., Ltd.	Wm. Vincer	Mindemoya	1911	225	165	226	6,638	3,377 01	2,298 17
36	Manitoulin & North Shore Telephone & Telegraph Co., Ltd.	G. H. Turner	Little Current	1892	33	203	203	19,000	4,136 00	4,136 00
471	Manse Grove Telephone Co., Ltd.	D. A. McFadyen	Lorneville	1912	57	32	64	3,240	1,319 85	1,234 93
681	Manvers Municipal Telephone System	W. R. Jakeman	Bethany	1921	220	68	234	13,843	3,921 63	3,467 43
402	Maple Grove Telephone Co.	Burnie Joynt	Shallow Lake	1912	24	12½	25	1,500	212 00	209 20
355	Maple Grove Telephone Co., Ltd.	Samuel McVannel	Shelburne	1922	8	6	12	400	128 00	95 76
545	Maple Leaf Telephone Co., Ltd.	P. W. Showell	R.R. 6, O. Sound.	1912	10	12	24	975	115 60	115 60
106	Mapleshade Telephone Co., Ltd.	W. S. Douglas	R.R. 3, Woodst'k.	1910	11	1¼	7	480	169 65	178 91
630	Maracle Telephone Line	D. H. Maracle	B. 222, Deseronto.	1919	5					
404	Marmion Telephone Co., Ltd.	Wm. J. Walwood	R.R. 4, Chesley	1912	35	15	40	2,275	230 89	217 99
434	Marmora Municipal Telephone System	Richard Maloney	Marmora	1924	75	39	55	7,319	644 92	770 54
649	Marmora Rural Telephone Co.	Hugh Moloney	R.R. 1, Marmora.	....	Sold to Municipality of Tp. of Marmora and Lake.					
405	Martintown Rural Telephone Co., Ltd.	W. W. W. Dean	Martintown	1912	181	49	104	11,871	2,285 61	1,331 67
188	Marysburg Telephone Co.	J. A. Cole	R.R. 3, Picton	1905	175	63	125	1,650	3,000 00	2,498 00
406	Massey Station Telephone Co., Ltd.	Theo. Ellis	Massey	1897	4	8	16	624	20 00	183 33
182	McCreary Telephone Company, Ltd.	Mrs. Lena McCreary	Latta	1906	304	103	304	12,000	4,028 56	5,823 96
668	McKellar Municipal Telephone System	W. M. Taylor	McKellar	1921	128	99	198	15,763	2,673 65	2,518 22
273	McKenzie Keward Rural Tel. System	John McKenzie	Chatsworth	1910	19	13	26	1,100	266 00	198 77
38	McKillop Logan & Hibbert Tel. Co., Ltd.	A. A. Colquhoun	R.R. 1, Staffa	1907	513	70	270	25,384	7,688 44	5,134 06
293	McKillop Municipal Telephone System	J. M. Govenlock	Seaforth	1908	420	181	505	29,208	6,605 74	5,451 97
398	McLean Telephone System	Mrs. M. Foster	McLean	1916	9	6	12	600		
107	McNab Telephone Co., Ltd.	Dr. J. E. Murphy	Arnprior	1910	170	73	174	6,122	2,131 73	1,467 92
329	Medonte Municipal Telephone System	T. D. Robinson	Moonstone	1911	454	149	519	21,000	5,085 79	5,085 29
178	Melancthon Telephone Co., Ltd.	Jas. Porter	Corbetton	1915	50	19	112	2,400	576 50	551 66
270	Mersea Municipal Telephone System	A. E. Newman	Leamington	1916	520	54	171	30,100	10,367 02	9,324 35
314	Metcalfe Rural Telephone Co., Ltd.	R. A. F. Blair	Metcalfe	1910	471	153	540	23,457	7,588 70	5,967 93
543	Millard Private Telephone Line	C. G. Millard	Coldwater	1915	2		20	1,500	94 80	54 40
588	Millbrook Rural Telephone Co., Ltd.	W. W. Brown	R.R. 2, Millbrook	1916	273	217	217	16,502	5,972 15	5,096 35
160	Mills' Telephone System	G. R. Mills	Thamesford		Sold to the Ingersoll Tel. Co., Ltd.					
426	Milton Telephone Company, Ltd.	A. E. Woodley	Milton	1923	15	2	5	450	106 60	106 60
688	Minden Municipal Telephone System	R. H. Baker	Minden	1922	135	58	116	22,959	4,935 05	4,754 42
118	Minesing Telephone Co., Ltd.	E. M. Stokes	Minesing	1913	129	25	86	8,640	1,600 91	1,600 91
546	Mink Lake Telephone Co., Ltd.	Joseph Lisk	Eganville	1915	20	10	20	1,140	165 82	165 82
229	Minto Rural Telephone Co., Ltd.	W. D. McLellan	Harriston	1908	209	72	218	7,163	2,919 28	2,203 88
678	Mississauga River Improvement Co., Ltd.	N. K. McCrimmon	Blind River	1919	1	3	3	Private Line, no revenue.		
335	Mississippi Telephone Company, Ltd.	M. M. Knowles	Lanark	1911	112	40	109	4,250	1,428 25	1,206 86
39	Molesworth Ind. Telephone Co., Ltd.	H. R. Spence	R.R. 1, Listowel.	1909	101	26	68	4,000	1,435 94	570 00
567	Monck Municipal Telephone System	Thos. Mears	Beaumaris	1916	64	36	125	6,168	1,968 01	1,878 54
612	Mond Nickel Company, Ltd.	C. V. Corless	Coniston	1912	98	96	192	Priv. System, derives no rev.		
230	Monk Rural Telephone Company, Ltd.	T. E. Argue	Carp	1909	480	514	1,024	91,102	22,852 63	18,374 71
159	Mono Farmers' Telephone Line	Lawrence Barber	Rosemont	1924	11	5	5	70		
108	Mono Mills Telephone Company, Ltd.	Dr. H. V. Fagin	Mono Mills	1908	178	60	600	7,620	1,796 99	1,671 71
682	Monteagle & Herschel Mun. Tel. System	T. B. Robinson	Greenview	1922	129	79	316	15,733	4,715 95	5,169 48

TELEPHONE SYSTEMS—*Continued*

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
190	Monteith Dempsey Telephone System	Nelson Monteith	R.R. 2, Stratford	System sold to The Bell Tel. Co. of Canada, Ltd.						
631	Montreal (Ont.) Telephone Company, Ltd.	F. B. Warren	R.R. 1, Brechin	1920	24	10½	23	2,530	149 50	197 20
43	Montague Centre Rural Tel. Co., Ltd.	R. F. McCreary	Smiths Falls	1925	In course of organization					
449	Moore Municipal Telephone System	D. M. Johnston	Courtright	1912	705	191	790	46,550	17,672 43	18,549 90
252	Mooresville Telephone Association	Dr. J. W. Orme	Crediton	1910	42	12	34	4,250	681 40	576 00
199	Morley Municipal Telephone System	Guy G. Gamsby	Stratton	1920	109	68	238	20,092	3,664 15	4,173 59
148	Mornington Municipal Telephone System	W. T. Shearer	Poole	1920	530	169	370	59,611	21,485 44	15,749 64
493	Moscow Mutual Telephone Co., Ltd.	A. A. Benn	R.R. 2, Moscow	1921	12	3	3	700	20 00	35 50
109	Moscow Rural Telephone Association	E. L. Van Luven	Moscow	1910	Central office only.			150	309 92	309 92
496	Mountain Telephone System	G. A. Bennett	Box 822, Midland	1922	13	4	9	1,188	286 00	167 17
42	Mount Albert Telephone Co., Ltd.	Jno. Moore	Mount Albert	1909	642	143	600	33,090	11,981 35	9,318 42
41	Mt. Forest, Wellington & Grey Tel. Co., Ltd	J. B. Moon	Mount Forest	1908	258	117	402	17,253	2,757 02	2,357 28
474	Mount Granite Telephone Co., Ltd.	W. J. Anderson	R.R. 1, S.S. Marie	1913	25	12	25	1,500	300 15	300 15
544	Mount Horeb Telephone Co., Ltd.	Jno. B. Morley	R.R. 2, Shallow L.	1913	23	6½	13	875	211 95	207 72
461	Mud Lake Telephone Co., Ltd.	Wm. Hartwig	R.R. 2, Eganville	1917	16	9	18	1,200	121 35	121 35
340	Murray Brighton Telephone Co., Ltd.	A. G. Austin	Wooler	1911	422	117	456	53,785	7,699 95	8,128 90
40	Muskoka & Parry Sound Tel. System	W. E. Campsall	Emsdale	1907	150	42	110	12,832	4,586 06	4,586 06
137	Muskoka Independent Tel. System	W. E. Campsall	Emsdale	Amalgamated with Muskoka & Parry Sound Tel. System						
446	Muskoka River Telephone Co., Ltd.	W. G. Scholey	B. 206 Bracebridge	1912	6	2	4	541	54 00	73 59
443	Muskoka, Victoria & Halib't'n Tel. Co., Ltd	H. Buckler	Uffington	1912	54	48	96	6,603	1,753 67	1,752 18
457	Muskrat Lake Telephone Co., Ltd.	Ernest Collins	Cobden	1913	17	9	18	411	71 00	93 00
473	Mutual Telephone Co., Ltd.	H. E. Dudenhoffer	Box 441, Orillia	1912	19	1	2	431	334 26	228 27
43	Nelson Telephone Co., Ltd.	J. W. Ramshaw	Milton	System sold to The Bell Telephone Co. of Canada, Ltd.						
253	New California Telephone Co. Ltd.	Norman Iler	Kingsville	1908	74	12½	67	5,678	1,390 65	1,168 80
44	New Dundee Rural Telephone Co., Ltd.	I. Lautenschlager	New Dundee	1908	196	60	180	8,500	3,921 51	3,248 72
45	New Glasgow Telephone Co., Ltd.	Arch. Maccoll	R.R. 2, Rodney	1909	145	46	110	6,000	2,002 35	1,770 35
167	Nipissing Private Telephone Line	J. B. Moore	Nipissing	1909	4	8	16	1,500	147 98	45 22
15	Nipissing Municipal Telephone System	Thos. Rowlandson	Nipissing	1922	42	18	36	6,362	575 90	409 35
47	Nissouri Telephone Co., Ltd.	Robt. Oliver	Thamesford	1903	182	49	180	9,370	2,744 16	1,766 22
48	Noisy River Telephone Co., Ltd.	M. N. Stephens	Glencairn	1908	807	216	544	60,444	13,911 03	10,911 09
49	Norfolk County Telephone Co., Ltd.	T. D. Duncombe	Waterford	1907	1,742	435	2,520	120,261	40,127 72	30,318 59
111	Norfolk & Tillsonburg Telephone Co., Ltd.	Albert Swinn	R.R.1, Tillsonburg	1906	285	72	359	14,930	4,018 03	3,062 04
112	Norland Independent Telephone Co., Ltd.	Edwin F. Le Craw	Norland	1907	23	11	11	530	8 84	32 42
488	Normanby Telephone Co., Ltd.	Geo. Damm	Ayton	1913	21	4½	9	700	148 60	143 63
151	North Algona Municipal Tel. System	Wm. J. Hugli	Golden Lake	1922	62	41	82	10,016	903 84	1,075 80

410	North Bonnechere Tel. Association, Ltd...	W. J. Smith.....	Box 1081, Renfrew	1912	14	6	12	1,200	162 45	275 65
113	North Brant Telephone Co. Ltd.....	Bert Monk.....	R.R. 2, Elmwood.	1908	50	20	23	1,250	458 88	396 78
348	North Brock Telephone Co., Ltd.....	Edgar B. Lambert....	R.R. 2, Cannington	1919	11	4	8	550	49 02	49 02
549	North Cavan Telephone Co., Ltd.....	J. A. Vance.....	Millbrook.....	1916	9	6	6	650	162 00	165 00
114	Northcote Farmers' Telephone Co., Ltd...	Thos. Atkinson.....	R.R. 3, Renfrew..	1909	45	11	18	1,800	173 66	173 66
548	North Eastern Telephone Association.....	Thos. E. Dunbar.....	Foresters Falls...	1913	.....	.....	.....	890	51 85	49 85
294	North Easthope Municipal Tel. System...	Margaret McGillawee.	R.R. 1, Stratford.	1910	467	84	533	57,799	5,141 03	5,230 24
349	North Elderslie Telephone Association....	Dave Graham.....	Dobbinton.....	.....	Amalgamated with Progressive Tel. Co., Ltd.					
328	Northern Mutual Telephone Association...	Chas. Jones.....	Marmora.....	1914	31	10	14	2,849	147 25	147 25
491	North Horton Telephone Association, Ltd..	R. G. Cole.....	R.R. 5, Renfrew..	1913	58	25	25	2,180	464 00	467 34
456	North Monck Municipal Tel. System.....	Albert J. Goltz.....	Bardsville.....	1924	18	12	32	2,611	167 42	115 04
245	North Norwich Municipal Tel. System....	E. Burpee Palmer....	Norwich.....	1923	601	141	540	28,500	10,554 19	9,661 97
573	North Renfrew Telephone Co., Ltd.....	L. O. Christman.....	Beachburg.....	1911	386	107	412	23,000	4,570 82	4,532 23
563	North River Municipal Tel. System.....	John Wm. Fell.....	R.R. 1, Coldwater	1915	69	20	82	5,435	1,664 30	1,315 30
231	North Wellington Telephone Co., Ltd.....	D. T. Small.....	Arthur.....	1905	192	67	158	11,846	2,940 83	2,587 86
440	Oakwood Telephone Co., Ltd.....	A. L. Short.....	Box 24, Oakwood.	1909	180	25	130	6,500	2,377 28	2,277 23
659	O'Connell Rathburn Telephone Co., Ltd...	Jas. O'Connor.....	O'Connell.....	1920	16	5	10	1,580	245 50	245 28
17	O'Connor Municipal Telephone System....	D. R. White.....	Kakabeka Falls..	1922	20	12	31	2,478	840 46	804 58
413	Oldfields Telephone System.....	F. Nixon.....	Dundalk.....	1909	15	3½	7	350	150 00	95 00
211	Oliver Municipal Telephone System.....	H. Gorton.....	Murillo.....	1911	105	33	200	10,750	2,790 75	2,682 28
192	Omemee Telephone Co., Ltd.....	W. R. Robinson.....	R.R. 3, Omemee..	1909	85	23	69	3,000	1,140 00	800 72
51	Oro Telephone Co., Ltd.....	J. M. Mitchell.....	Oro Station.....	1909	287	110	234	15,700	3,583 00	1,953 00
91	Orono Telephone Co., Ltd.....	Dr. Neil Colville.....	Orono.....	1906	338	100	416	14,000	3,957 98	3,448 01
299	Orr Steinhoff Telephone Association.....	Wallace Thomson....	R.R. 2, Chesley..	.....	Amalgamated with Progressive Tel. Co., Ltd.					
158	Osceola Telephone Association.....	Jas. V. Donegan.....	R.R. 4, Cobden...	1913	13	7½	15	2,643	122 50	85 00
361	Osprey Municipal Telephone System.....	G. D. Short.....	Feversham.....	1912	213	32	200	18,654	3,592 28	2,541 53
485	Otonabee Municipal Telephone System....	.....	.....	.....	.....	.....	.....	.....	.....	.....
459	Palace Road Telephone Co., Ltd.....	Sid. C. S. McKim.....	Napanee.....	1911	45	11	34	3,000	759 53	630 83
414	Park Head Rural Telephone Co.....	Bert Rourke.....	Park Head.....	1911	22	8	16	800	203 37	203 37
669	Parkhill Arkona Telephones, Ltd.....	M. H. Chamberlain...	Arkona.....	1922	299	117	465	25,000	5,906 51	6,748 91
550	Passmore Fowler Telephone Line.....	Jas. Fowler.....	North Bay.....	.....	Sold to The Bell Telephone Co. of Canada, Ltd.					
171	Pastime Telephone Association.....	J. W. Seigel.....	R.R. 3, Cobden...	1913	15	9	12	1,200	92 00	92 00
254	Peerless Telephone Co.....	W. G. Cheasley.....	Woodstock	1909	9	4	8	450	135 41	135 41
266	Pefferlaw Telephone System, Ltd.....	G. F. Gibson.....	Wilfrid.....	1911	160	67	160	5,100	1,770 00	1,713 11
454	Pelee Island Municipal Tel. System.....	Hubert Taylor.....	Scudder.....	1913	114	26	57	12,264	3,216 46	3,058 94
658	Pembroke & Mud Lake Telephone Co., Ltd.	Robt. J. Gouldie.....	R.R. 3, Pembroke	1921	13	5	10	825	126 25	126 25
255	Penhurst Telephone Co., Ltd.....	A. G. Karn.....	R.R. 3, Woodstock	1920	8	2	4	540	118 11	106 39
317	People's Mutual Telephone Co., Ltd.....	Arnold D. Way.....	Picton.....	1907	327	44	237	9,000	2,238 33	1,922 65
52	People's Telephone Co. of Forest, Ltd....	R. B. Crosbie.....	Forest.....	1906	724	562	1,118	18,334	18,452 37	9,152 09
53	People's Telegraph & Telephone Co., Ltd..	Miss W. Wallace.....	Bancroft.....	1905	73	10	60	9,020	4,916 45	4,984 64
551	Percy Municipal Telephone System.....	F. H. Meneilley.....	Warkworth.....	1916	532	141	560	51,100	13,573 32	13,031 00
81	Perry Telephone System.....	Fred. A. Perry.....	Napanee.....	1916	157	107	214	13,000	2,355 00	1,925 00
415	Perth & Christie's Lake Tel. Co., Ltd.....	Dennis Noonan.....	Perth.....	1909	90	24	37	3,000	530 00	418 23

TELEPHONE SYSTEMS—*Continued*

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
277	Petawawa Rural Telephone Co., Ltd.	Herb. J. A. Moss.	R.R. 6, Pembroke	1923	24	15	40	2,842	485 56	485 56
196	Pine Grove Telephone Association, Ltd.	Neil O'Connor	R.R. 4, Orillia	1910	15	2	3	655	127 50	127 50
417	Pine Valley & Douglas Telephone Assn.	Robt. A. Hamilton	R.R. 4, Cobden	1912	47	14	56	2,748	644 08	630 09
115	Pioneer Telephone Co., Ltd.	Thos. P. Hart	R.R. 8, Woodstock	1908	31	15	29	1,028	465 00	309 19
625	Plane Settlement Telephone Co., Ltd.	Edward Plane	Madoc	1918	16	9½	19	1,200	141 25	128 33
552	Pleasant Valley Telephone Co., Ltd.	Milford Dupre	R.R. 6, Napanee	1914	24	8	20	1,712	277 50	184 95
553	Pleasant View Telephone Co., Ltd.	Harvey Roseborough	Owen Sound	1915	10	4	8	480	100 00	100 00
256	Plum Hollow & Eloida Ind. Tel. Co., Ltd.	S. Hollingsworth	Athens	1909	362	60	150	60,000	4,444 82	3,020 14
150	Plummer, Aberdeen & Galbraith Rural Telephone Association	Angus McPhee	Ophir	1915	46	35	112	4,400	547 15	510 07
555	Plummer Add'l & Lefroy Mun. Tel. System	Thos. Humphries	Bruce Mines	1915	56	33	66	3,900	616 00	524 00
475	Point Mara Telephone Co., Ltd.	Frank Thompson	Brechin	1920	19	6	11	1,400	122 65	121 75
654	Pontypool Telephone Company, Ltd.	W. J. Goheen	Pontypool	1912	46	15	19	1,093	250 00	40 00
347	Porcupine Telephone Lines, Ltd.	Geo. H. Sedgewick	Room 1007 Excelsior Life Bldg., Toronto	1911	817	21½	765	92,116	30,385 06	32,095 90
203	Port Arthur Municipal Telephone System	F. D. Jackson	34 N. Cumberland St., Pt. Arthur	1902	3,287	40	3,860	310,936	90,148 97	89,796 14
54	Port Hope Telephone Co., Ltd.	A. M. Jones	Clarke	1899	375	143	357	22,538	7,360 77	3,366 89
554	Portland Rural Telephone Co.	W. H. Kerr	Harrowsmith	1915	System not in operation in 1924.					
565	Prescott Rural Telephone Co., Ltd.	C. F. Proudfoot	Routhier	1915	128	48	348	8,796	2,096 29	1,505 70
55	Princeton & Drumbo Telephone Co., Ltd.	Walter H. Kipp	Princeton	1908	625	168	1,020	43,454	12,212 79	10,625 05
412	Progressive Telephone Co., Ltd.	David Graham	Dobbinton	1912	77	36	72	5,115	897 45	755 35
193	Provencher (A. J.) Telephone Line	A. J. Provencher	Silver Centre	.....	Not in operation yet.					
632	Purbrook & Fraserburg Tel. Co., Ltd.	Matthias Harrison	Fraserburg	1920	22	16½	23½	4,464	815 35	500 24
515	Queen's Line Telephone Co., Ltd.	Hilliard Guest	R.R. 1, Foresters Falls	1922	45	22	30	1,600	297 50	248 00
165	Quinlan Telephone System	Dr. P. F. Quinlan	Stratford	1910	105	45	150	7,150	2,310 00	1,585 00
502	Radcliffe Municipal Telephone System	C. B. Dennison	Combermere	1923	20	23	23	3,530	778 35	817 67
480	Raglan Municipal Telephone System	A. E. Lidkie	Palmer Rapids	1923	54	52	90	7,676	183 00	196 15
216	Railton Rural Telephone Line	Rev. Jno. A. Powell	R.R. 4, Kingston	1905	1	3	3	300 Priv. Line, no revenue.		
56	Rainy River International Tel. Co., Ltd.	A. P. Mutchmor	501 McIntyre Blk. Winnipeg, Man.	1904	.....	56	112	5,000	1,325 00	699 82
524	Rainy River Municipal Tel. System	E. E. Jess	Rainy River	1920	160	40	82	11,402	3,773 45	4,652 14

234	Rama Mara Telephone Co., Ltd.	Archie L. MacDonald.	R.R. 2, Atherley.	1923	8	2½	5	727	128 00	133 47
490	Rankin Telephone Co.	M. L. Davis.	R.R. 4, Pembroke	1911	281	77	256	13,071	5,558 30	5,609 40
343	Ravenscliffe Telephone Co., Ltd.	E. W. Tipper.	Ravenscliffe.	1912	34	16	46	2,367	550 13	539 07
671	Redden Telephone System	Mrs. G. B. Redden.	Tamworth	1920	60	20	40	4,150	1,203 36	831 81
441	Renfrew & Shamrock Tel. Association	M. Quilty.	R.R. 4, Renfrew.	1914	18	16	32	1,552	312 46	259 41
257	Richard's Landing Mun. Telephone Club	S. Shipman	Richard's Land'g.	1910	31	1	9	2,500	268 50	268 50
445	Riverdale Telephone Co.	F. B. Carscallen	Napanee.	1913	18	3	6	685	216 00	157 56
223	Riverside Telephone Co., Ltd.	Elgin E. Harwood	R.R. 7, Woodstock	1913	10	1½	3	500	149 53	149 53
476	Riverview Telephone Line Co., Ltd.	Harold E. King.	Cannington	1924	10	9	9	275	49 00	46 33
512	Robinson Rural Telephone Co., Ltd.	W. T. Edmonds.	Silver Water	1911	32	19½	23	659	108 00	74 50
213	Rochester Municipal Telephone System	F. A. Trepannier	St. Joachim	1907	530	85	400	41,295	9,636 11	8,588 51
617	Rocktown Telephone System	S. Patterson.	R.R. 5, Shelburne	1912	48	28	56	2,550	720 00	465 73
259	Rockwood & Oustic Telephone Co., Ltd.	Frank Major.	R.R. 1, Guelph	1907	88	27	100	7,997	1,492 92	982 45
284	R.C. Episcopal Corporation of Kingston	Rev. H. J. Farrell.	Enterprise.	1912	1	3½	7	307	Priv. Line, no revenue.	
287	Romney Telephone System	A. J. Hyatt.	Wheatley.	1907	26	12	24	1,000	312 00	236 00
500	Rose Telephone Co., Ltd.	Wm. T. Inch	Rydal Bank.	1915	19	17	34	1,100	295 11	157 34
181	Rosedale Rural Telephone Association	W. B. Brandon	Box 71, Fenelon Falls.	1914	21	7½	15	800	144 20	164 35
419	Rosedale Rural Telephone Co., Ltd.	T. E. Hagerman	Sydenham.	1913	20	7	14	1,505	204 10	168 72
508	Roseville Rural Telephone Co., Ltd.	W. Jno. Jones.	R.R. 1, Smith Falls	1922	17	5½	11	1,842	78 40	154 45
561	Rox Rural Telephone Association	Sam'l Olmstead	Cobden.	1914	16	9	18	1,525	103 12	103 12
462	Roxborough Mun. Telephone System	Murd. McLeod.	Moose Creek.	1918	253	74	266	20,510	3,803 00	3,260 83
633	Rumney Settlement Telephone Co., Ltd.	J. B. White.	Coboconk.	1919	16	9	18	1,835	126 60	87 60
57	Rural Telephone Co. of Kitley, Ltd.	I. E. Lockwood.	Newbliss.	1907	275	65	316	12,018	4,397 63	3,465 39
420	Russell Rural Telephone Co., Ltd.	Wm. Clarke.	Navan.	1911	245	77	260	16,103	5,392 51	4,499 08
169	Russell Telephone System	Dr. A. L. Russell.	Bailieboro.	1906	110	60	60	3,500	920 00	885 00
634	Rutherglen Rural Telephone Co., Ltd.	Jos. Rose.	Rutherglen.	1920	24	18	36	2,530	21 50	13 50
562	Rydal Bank Plummer Telephone Co., Ltd.	Mrs. W. Graham.	Plummer.	1915	13	17	17	946	131 45	114 30
243	Ryde Municipal Telephone System	Wesley Rebman	Barkway.	1923	62	31	170	9,355	785 25	1,144 50
597	Saginaw Telephone Co.	J. W. Wakelin	Cannington	1917	5	1	2	120	34 50	34 50
260	Salem Telephone Association	Chas. M. Carruthers.	Bowmanville.	1909	8	4	8	700	75 00	60 92
262	Salkeld Telephone System	J. W. Salkeld.	R.R. 2, Goderich.	1922	7	1½	3	110	69 50	69 50
297	Sandwich South Mun. Telephone System	Jas. McAuliffe.	Maidstone.	1911	320	76	152	17,375	5,524 90	4,667 69
421	Sandwich West Co-op. Telephone Co., Ltd.	Wm. Pajot.	Loiselleville.	1909	126	27	150	10,500	3,681 34	3,590 21
422	Saugeen Rural Telephone Co., Ltd.	E. R. Doll.	Southampton.	1911	15	10	20	1,550	187 04	187 04
58	Scarboro Independent Telephone Co., Ltd.	Thos. W. Maxwell.	R.R. 1, Agincourt.	1906	570	138	552	95,113	8,061 42	6,446 86
59	Schomberg Telephone Co., Ltd.	Herb. H. Sawdon.	Schomberg.	1910	323	85	338	23,303	6,251 26	5,821 89
120	Scotch Line & Stanleyville Tel. Co., Ltd.	G. F. Wilson.	R.R. 3, Perth.	1910	65	24	48	6,400	425 20	493 56
288	Scratch & Palmer Telephone System	Chas. A. Palmer	Kingsville.	1906	10	2½	5	280	50 00	50 00
303	Seagrave Telephone Line	Jas. Watson.	Sonya.		Amalgamated with Manilla Union Tel. Co., Ltd.					
268	Sebright Telephone Co., Ltd.	T. Walter Deverell.	Sebright.	1913	78	62	119	7,000	994 48	1,020 09
195	Sebringville Telephone Co., Ltd.	A. C. Werner.	Sebringville.	1898	372	80	420	24,108	6,555 20	4,410 10
318	Second Line Drummond Telephone Co., Ltd	C. R. Cullen.	R.R. 1, Perth.	1914	36	10	30	3,800	385 10	381 50
423	Section Telephone System	Morley Wigle.	Kingsville.	1908	12	Leased from B. T. Co.		265	122 00	110 82
448	Selby Telephone Co., Ltd.	Thos. I. Winter.	Newburgh	1913	110	33	164	7,768	1,600 00	1,259 00

TELEPHONE SYSTEMS—*Continued*

Summary of Returns from Telephone Companies, Municipalities and Individual Owners of Telephone Lines up to December 31st, 1924.

No.	Name of Company or System	Secretary, Manager or Owner	P.O. Address	Year started	No. of telephones	Miles of poles	Miles of wire	Capital expended	Receipts	Expenditure
								$	$ c.	$ c.
624	Shakespeare Telephone Co., Ltd.	Lenard Maville	Webbwood	1919	4	3	6	100	12 00	12 00
144	Sherwood Municipal Telephone System	H. J. Chapeskie	Barry's Bay	1922	19	16	36	4,500	822 00	758 17
424	Shuniah Municipal Telephone System	E. E. Thomas	Intola	1913	122	55	230	16,186	4,558 37	5,067 39
30	Sidney Bell Telephone Co	Geo. T. Cummings	R.R. 5, Trenton	1908	81	.....	62	Pole line owned by B. T. Co.	1,437 75	1,437 75
425	Silcote Telephone Co., Ltd.	Thos. Farquharson	Annan	1912	50	23	53	4,625	578 24	514 73
267	Silver Creek Telephone Co., Ltd.	J. E. Hyatt	Wiarton	1913	27	10	20	2,760	216 00	212 40
212	Slate River Municipal Telephone System	H. J. Carter	Murillo	1909	72	36	68	11,130	1,950 75	1,924 16
272	Snake River Telephone Co., Ltd.	H. M. Shields	R.R. 3, Cobden	1911	52	7	43	1,855	502 62	500 81
498	Sonya Telephone Line	E. Ferguson	Cresswell	.....	Amalgamated with Manilla Union Tel. Co., Ltd.					
390	South Algona Mun. Telephone System	John P. Nelan	Ruby	1923	14	12	24	2,478	11 65	151 00
197	South Brant Rural Telephone Co., Ltd.	Hugh Traynor	Walkerton	1910	24	5½	11	1,200	184 00	146 50
232	South Bruce Rural Telephone Co., Ltd.	J. N. Schefter	Mildmay	1910	769	224	626	44,682	11,251 98	7,919 23
427	South Colchester Telephone Co., Ltd.	Evan Wright	Harrow	1909	11	3	3	364	84 12	84 12
123	South Crosby Rural Telephone Co., Ltd.	J. S. Dargavel	Elgin	1910	436	121	379	32,082	5,908 12	6,230 73
428	South Diagonal Telephone Co., Ltd.	W. J. Saunders	R.R. 7, OwenSound	1911	80	49	98	3,700	1,219 71	1,112 04
333	South Elderslie Telephone Co., Ltd.	M. D. McClure	Chesley	1911	38	16	38	1,025	238 24	276 24
470	South Janetville Telephone Co., Ltd.	J. R. Hall	Janetville	1918	20	8	8	648	12 40	12 40
61	South Leeds & Pittsburg Tel. Co., Ltd.	R. E. Sliter	Gananoque	1908	271	68	410	12,500	5,279 45	3,387 58
62	South Malahide Telephone Co., Ltd.	Miss J. Heatherington	Aylmer	1905	840	98	215	6,000	23,476 09	22,541 75
429	South McNaughton Telephone Co., Ltd.	Jas. E. Cole	R.R. 2, Renfrew	1911	15	6	12	500	113 25	91 37
642	South Norfolk Telephone Co., Ltd.	T. D. Duncombe	Waterford	1920	255	43	212	18,448	6,632 17	3,895 67
564	South Plantagenet Rural Tel. Co., Ltd.	D. L. Scott	Fournier	1915	180	64	220	14,600	2,734 70	1,475 29
580	South Walsingham Telephone Co., Ltd.	Frederick W. Dalton	Walsingham	1917	36	13	25	1,200	214 40	181 36
63	Southwold & Dunwich Tel. Assn., Ltd.	John H. Sells	Shedden	1906	302	128	151	9,000	3,151 20	2,926 57
183	Sparrow Lake Private Telephone Line	Orma T. Clipsham	Sparrow Lake	1908	12	5	10	675	164 96	129 18
352	Sparta Rural Telephone Co., Ltd.	J. E. Turrill	Sparta	1910	175	48	138	6,670	2,103 94	2,116 31
142	Spence Monteith Telephone Co., Ltd.	Thos. Ryder	Inholmes	1923	22	22	30	3,308	411 30	130 68
479	Spey River Telephone Co., Ltd.	Robt. J. Hill	R.R.4,OwenSound	1913	11	Leased from B.T. Co.		435	117 33	117 89
198	Sprague Telephone System	J. G. Sprague	Mountain View	1898	461	125	500	2,700	7,365 00	6,105 61
122	Spring Creek Telephone Co., Ltd.	W. J. Burton	Woodstock	1909	10	¾	1½	419	153 49	119 09
430	Spring Creek Telephone Co.	George A. Hendry	Hepworth	1910	20	9	18	770	103 00	103 00
686	Stanhope Municipal Telephone System	Angus Coulter	Boskung	1922	78	49	162	13,983	3,512 06	2,998 79
159	St. Johns Telephone System	D. Gray MacNeill	R.R. 2, London	1907	283	78	380	27,200	5,586 10	4,690 15

330	St. Joseph Island Telephone Co., Ltd.	H. S. Hyland	Richard's Landing	1917	90	59	59	2,250	1,690 29	1,592 79
65	St. Marys Medina & Kirkton Tel. Co., Ltd.	E. N. Shier	Kirkton		Sold to	Municipality of Tp. of Blanshard.				
431	Stormont Telephone Co	E. L. Brown	Aultsville	1908	41	14	14	3,500	272 00	184 39
153	Strong Municipal Telephone System	A. M. Church	Sundridge	1923	43	30	90	7,600	863 70	376 42
432	Stroud Telephone Co., Ltd.	W. Lennox Black	Craigvale	1911	264	44	182	14,920	3,305 35	3,262 69
214	St. Vincent Municipal Telephone System.	Geo. G. Albery	Meaford	1910	534	110	200	32,633	7,994 25	7,386 40
433	Sullivan & Bentinck Telephone Co., Ltd.	Alex. McGregor	R.R. 1, Chesley	1911	20	8	16	1,000	179 69	169 69
521	Sullivan & Elderslie Telephone Co., Ltd.	J. A. Woelfle	Chesley	1911	18	7½	15	900	93 66	137 72
67	Sunderland Telephone Co., Ltd.	Thomas Purvis	Sunderland	1907	275	83	206	17,948	5,146 67	2,534 80
312	Sunny Valley Telephone Co., Ltd.	A. R. Merriam	Chatsworth	1910	9	Leased from B.T. Co.			84 79	73 02
189	Superior Telephone Club	J. Coulter	Sault Ste. Marie	1918	4	1½	3	324	72 00	72 00
660	Suroff Telephone System	Jas. B. Park, Jr.	Allan Park	1920	220	45	250	12,000	3,408 00	2,641 20
124	Sutton & North Gwillimbury Tel. Co., Ltd.	R. T. Sturtridge	Sutton West	1910	156	35	98	15,000	2,340 00	2,106 66
200	Swale (Cecil) Telephone System	Cecil Swale	R.R. 3, Wiarton	1908	19	19½	39	1,703	339 25	295 15
436	Sydenham Union Telephone Co., Ltd.	E. L. Kemp	R.R. 6, OwenSound	1911	23	6	12	1,265	208 81	205 60
353	Tara Keady Telephone Co., Ltd.	Albert Fleming	R.R. 5, Tara	1912	33	11½	32	3,060	417 06	858 43
323	Tarbutt Municipal Telephone System.	W. E. Hollingsworth	MacLennan	1912	65	25	52	4,267	981 35	736 54
233	Tarentorus Telephone Co., Ltd.	Mrs. Gladys Tichy	6 Kensington Ter. Sault Ste. Marie	1910	24	8	24	2,421	480 00	370 00
301	Tay Municipal Telephone System	G. W. Allison	Victoria Harbor	1911	200	40	96	14,959	2,912 67	2,609 77
68	Temiskaming Telephone Co., Ltd.	P. R. Craven	New Liskeard	1905	2,118	300	3,006	276,567	70,203 33	62,252 29
296	Temiskaming & Northern Ontario Ry. Com.	W. H. Maund	North Bay	1905	156	388	1,983	151,825	76,872 10	35,322 44
186	Tenth Concession Alice & Fraser Tel. Co., Ltd.	E. A. Biesanthal	R.R. 7, Pembroke	1923	18	10	34	3,500	183 00	183 00
69	Thamesville Telephone Co., Ltd.	G. C. Hubbell	Thamesville	1909	620	126	332	36,800	8,866 17	7,227 33
70	Thedford, Arkona & East Lambton Tel. Co., Ltd.	F. D. Case	Thedford	1910	366	67	305	15,780	5,773 43	3,720 60
487	Thessalon Municipal Telephone System	Theo. E. Clinton	Thessalon	1916	76	31	62	5,902	1,464 00	1,261 10
643	Tichborne Telephone Co., Ltd.	J. A. Kennedy	Tichborne	1920	24	11	22	2,028	24 80	6 40
179	Tilbury East Municipal Telephone System.	M. Ada Farquharson	R.R. 1, Merlin	1918	355	115	360	13,734	6,427 33	5,785 12
362	Tilbury West Municipal Tel. System	J. W. Brown	Comber	1911	553	121	296	33,643	9,273 91	8,291 52
161	Tiny Municipal Telephone System	Jos. E. Brunelle	Lafontaine	1922	83	17	86	6,900	1,573 44	1,117 37
450	Town Line of Brant & ElderslieTel.Co.,Ltd.	Thos. A. Paterson	R.R. 1, Chesley	1911	16	5½	11	480	88 20	88 20
559	Town Line Tel. Assn. Pembroke & Stafford, Ltd.	Richard Biggs	R.R. 4, Pembroke	1918	13	4	8	685	77 50	77 50
295	Tuckersmith Municipal Tel. System	Jno. B. Mustard	Brucefield	1909	836	212	1,095	62,744	10,551 37	10,474 21
6	Tyendinaga Municipal Tel. System	R. F. Kinnear	Lonsdale	1918	112	52	104	18,000	1,426 40	
595	Udney Telephone Co., Ltd.	J. M. Robertson	Udney	1917	94	33	93	6,210	1,322 89	1,329 79
463	Uhthoff Telephone Co., Ltd.	A. G. Elliott	Uhthoff	1920	104	91	191	13,950	1,456 00	831 00
290	Ungers Telephone System	Edward Starling	St. Williams	1909	14	5	5	385	132 20	132 30
354	Union Telephone Co., Ltd.	O. B. Henry	Drayton	1909	429	120	400	21,643	7,868 79	6,429 83
574	Upper Admaston Rural Telephone Line	Thos. Rowan	R.R. 2, Renfrew	1916	33	14	28	1,623	378 11	337 40
495	Uptergrove Telephone Co., Ltd.	Henry H. Wainman	Uptergrove	1914	15	9½	19	914	239 79	239 79
72	Urban & Rural Telephone Co., Ltd.	Eugenie La Fevre	Bothwell	1910	505	136	453	27,026	8,436 99	6,325 44

TELEPHONE SYSTEMS—*Continued*

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								$	$ c.	$ c.
637	Valley Farm Private Telephone Line	Mark Taylor	Parry Sound	1919	5	3½	7	1,000	55 00	55 00
547	Verona & Bellrock Telephone Co., Ltd	Eugene Goodberry	Verona	1914	29	7	14	832	121 77	110 84
638	Verona & Frontenac Telephone Co., Ltd	A. E. Beattie	Godfrey	1920	97	45	90	6,000	895 09	832 49
452	Vespra Municipal Telephone System	A. B. Coutts	Barrie	1913	193	54	89	12,000	3,832 70	3,731 30
32	Vesta Telephone Co., Ltd	H. M. Fortune	R.R. 1, Chesley	1924	20	9	18	630	330 30	306 65
639	Victoria Rural Telephone Co., Ltd	W. H. Whalen	Walford Station	1918	31	19	27	2,250	300 00	646 24
640	Victory Telephone Co., Ltd	Geo. Anderson	R.R. 4, Chesley	1920	80	23	100	8,400	397 25	391 03
125	Violet Hill Telephone Co., Ltd	Jas. Horner	Camilla	1910	13	9	18	650	95 00	89 50
636	Wahnapitae Power Co., Ltd	A. H. Skene	Sudbury	1919	1	25	25	2,487	Priv. syst., no revenue.	
126	Wallacetown & Lake Shore Tel. Assn., Ltd.	S. V. Jones	Wallacetown	1905	260	69	127	6,856	3,486 38	2,646 68
264	Walsingham Centre & Port Rowan Tel. Co., Ltd	Lorne Y. Anger	R.R. 1, Walsingham	1908	16	9	11	600	112 00	76 14
351	Waterloo Municipal Telephone System	Anson Groh	Preston	1913	387	114	631	23,488	4,989 73	4,989 73
566	Watt Municipal Telephone System	Mark Kay	Ufford	1916	125	51	300	11,981	2,069 27	1,525 04
73	Welland County Telephone Co., Ltd	C. N. Glenny	Bridgeburg	1906	1,873	221	2,260	127,693	37,514 80	36,886 52
641	Wellesley Municipal Telephone System	J. C. McKay	Wallenstein	1919	562	142	664	60,043	14,601 90	13,634 71
585	West Campbell & Mills Tel. Co., Ltd	J. C. Baker	Poplar	1917	45	40	40	2,340	268 00	268 00
74	West Garafraxa Tel. Co-op. Assn. Ltd	Frank Vallery	Belwood	1905	100	39	78	6,146	2,981 12	2,903 03
622	West Lake Telephone Co., Ltd	Fred. C. Schoen	Massey	1917	11	7½	15	925	55 55	55 55
447	Westmeath Seventh Line Tel. Co., Ltd	Alex. M. Barr	Beachburg		Amalgamated with North Renfrew Tel. Co., Ltd.					
576	Westport Rural Telephone Co., Ltd	J. F. McNally	Westport	1913	336	75	300	22,321	5,384 75	4,161 03
316	West Tay Municipal Telephone System	W. H. Montgomery	R.R. 1, Wyebridge	1923	27	10	39	3,494	324 00	310 75
75	West Williams Rural Telephone Assn	J. D. Wilson	R.R. 3, Kerwood	1910	168	63	198	11.354	1,734 59	1,735 47
76	Wheatley Telephone Co., Ltd	R. N. Epplett	Wheatley	1908	364	104	440	23,032	5,999 35	5,512 40
286	White Telephone System, Ltd	Edw. Brackenbury	Leamington	1908	19	4	16	1,000	339 62	345 80
670	Whitestone & Deer Lake Telephone Line	E. C. Bennett	Wa Wash Kesh	1923	12	13	13	2,000	240 00	163 00
570	Widdifield Municipal Telephone System	John A. Carmichael	North Bay	1915	49	22	64	5,434	1,815 52	1,337 54
172	Wightman Telephone System	Robt. Wightman	Clifford	1909	285	72	150	15,000	4,275 00	3,422 00
494	Wilberforce Telephone Co	Angus Warren	Eganville	1913	22	6	12	1,550	113 00	113 00
466	Wilmot Municipal Telephone System	A. R. G. Smith	New Hamburg	1922	286	128	504	19,384	5,986 66	6,671 94
483	Windham Telephone Co	J. C. Boll	Delhi	1912	26	16	36	1,750	390 00	291 50
482	Winter Private Telephone Line	W. A. Winter	Aurora	1907	8	3	6	500	80 00	7 00
439	Wolford Rural Telephone Co., Ltd	Wm. Ballantyne	Eastons Corners	1909	96	14½	29	4,450	987 00	987 00
168	Wolftown Telephone Co., Ltd	Gordon Spence	Cobden	1913	22	9	11	1,020	211 46	197 19
321	Woodbridge & Vaughan Tel. Co., Ltd	Dr. F. W. Routley	Maple	1910	921	134	797	51,537	21,312 16	20,712 16

438	Woodford Telephone Co., Ltd.	Emerson Long	Woodford	1912	30	13	36	2,355	338 75	335 65
127	Woodville Glen Telephone Assn	N. A. Jamieson	Woodville	1910	32	7	16	1,400	267 04	254 23
326	Worthington Municipal Telephone System.	Edmund Kearney	Sleeman	1921	26	13	38	3,764	653 78	608 32
77	Wroxeter Rural Telephone Co., Ltd.	E. P. Hazlewood	Wroxeter	1909	389	74	290	15,000	4,717 11	3,809 34
339	Yarker Rural Telephone Co., Ltd.	Earl Warner	Yarker	1921	68	25	35	5,000	420 20	405 49
651	Yarker Telephone Co	Manly Foster	Yarker	1915	8	.....	2½	310	497 70	497 70
78	Yarmouth Rural Telephone Co., Ltd.	Geo. Westlake	R.R. 8, St. Thomas	1908	114	30	50	4,990	2,139 10	1,921 11
571	Zion Line Telephone Association, Ltd.	S. McMillan	R.R. 6, Cobden	1912	22	7	14	480	193 17	173 16
674	Zion & Wolseley Telephone Co., Ltd.	Wm. H. Reckin	Wiarton	1921	22	12	24	1,320	379 00	154 00
128	Zorra Telephone Co., Ltd.	R. N. Green	Embro	1906	173	59	164	10,798	3,229 38	2,044 78

ESTIMATED NUMBER OF TELEPHONE STATIONS IN THE DOMINION OF CANADA

	1923	1924	Dec. 31st, 1923	Dec. 31st, 1924
Bell Telephone Company of Canada:				
Quebec	149,537	170,047		
Ontario	336,704	366,801		
	486,241	536,848	486,241	536,848
Local Telephone Systems in Quebec and Ontario in which the Bell Company is interested, or with which it is otherwise connected, viz.:				
Quebec	30,523	32,632		
Ontario	94,855	96,244		
	125,378	128,876	125,378	128,876
Local Telephone Systems in Quebec and Ontario in which the Bell Company is not interested, or with which it is not otherwise connected, viz:				
Quebec	5,350	5,950		
Ontario	12,283	13,009		
	17,633	18,959	17,633	18,959
PRINCE EDWARD ISLAND				
The Telephone Co. of Prince Edward Island	2,973	3,025		
Connecting	1,208	1,215		
Non-connecting	.....	.....		
	4,181	4,240	4,181	4,240
NOVA SCOTIA				
Maritime Tel. & Tel. Co	31,977	32,745		
Connecting	6,324	6,520		
Non-connecting	.....	.....		
	38,301	39,265	38,301	39,265
NEW BRUNSWICK				
New Brunswick Tel. Co	25,696	26,288		
Connecting	1,808	1,580		
Non-connecting	316	439		
	27,820	28,307	27,820	28,307
MANITOBA				
Manitoba Government System	62,955	63,294		
Connecting	3,316	3,411		
Non-connecting	28	260		
	66,299	66,965	66,299	66,965
SASKATCHEWAN				
Saskatchewan Government System	31,857	31,888		
Connecting	65,414	66,168		
Non-connecting	247	.....		
	97,518	98,056	97,518	98,056
ALBERTA				
Alberta Government System	52,811	53,096		
Connecting	14,468	14,561		
Non-connecting	.....	.....		
	67,279	67,657	67,279	67,657
BRITISH COLUMBIA				
British Columbia Tel. Co	76,948	82,185		
Connecting	1,162	1,185		
Non-connecting	5,610	5,940		
	83,720	89,310	83,720	89,310
Yukon Tel. Syndicate	.....	.....	350	350
Unknown or unaccounted for	.....	.....	*8,017	*5,131
Total	.....	.....	1,022,782	1,083,964
Increase—5.9 per cent.				

NOTE:—The above statistics were prepared by the Supervisor of Statistics of The Bell Telephone Company of Canada from best unofficial sources available.

*These figures represent 1 per cent. of the total stations, exclusive of those owned by the Bell Company and those operated in the Province of Quebec and Ontario in which the Bell Company is interested or with which it is otherwise connected.

COMPARATIVE TELEPHONE DEVELOPMENT TO POPULATION
(DOMINION OF CANADA)

Province	Official Census1921	Telephones Dec. 31, '23	Percent. Telephones to Pop. Dec. 31,' 23	Telephones Dec. 31, '24	Percent. Telephones to Pop. Dec. 31, '24
Quebec	2,361,199	185,410	7.8	208,629	8.8
Ontario	2,933,662	443,842	15.1	476,054	16.3
Prince Edward Island	88,615	4,181	4.7	4,240	4.8
Nova Scotia	523,837	38,301	7.3	39,265	7.5
New Brunswick	387,876	27,820	7.1	28,307	7.3
Manitoba	610,118	66,299	10.8	66,965	11.
Saskatchewan	757,510	97,518	12.8	98,056	13.
Alberta	588,454	67,279	11.6	67,657	11.6
British Columbia	524,582	83,720	15.9	89,310	17.
Yukon	4,157	350	8.4	350	8.4
Northwest Territories and Royal Canadian Navy	8,473	.....	.....	.....	.....
Unknown or unaccounted for	.....	8,062	.....	5,131	.....
Total	8,788,483	1,022,782	11.6	1,083,964	12.3

TELEPHONE SYSTEMS IN ONTARIO CONNECTING WITH THE BELL TELEPHONE COMPANY OF CANADA, LIMITED, SHOWING POINTS OF CONNECTION.

Systems marked (*) operate their own switchboard.

Point of Connection.	Name of System.
Ailsa Craig	Falkirk Telephone Co., Ltd.
Alexandria	*Glengarry Telephone Co., Ltd.
Vankleek Hill	
Allenford	*Allenford Rural Telephone Co., Ltd.
Alliston	Beeton Telephone Co., Ltd. *See* Beeton.
Almonte	Lanark & Carleton Counties Telephone Co., Ltd.
Alvinston	*Brooke Municipal Telephone System.
Watford	
Inwood	
Arden	*Arden and Parham Telephone System. *See* Harrowsmith.
Arkona	*Parkhill, Arkona Telephones Ltd. *See* Parkhill.
Arnprior	*Horton McNab Telephone Co., Ltd. *See* Renfrew.
"	*McNab Telephone Co., Ltd.
Arthur	North Wellington Telephone Co., Ltd.
Athens	*Plum Hollow & Eloida Telephone Co., Ltd.
Aultsville	*Stormont Telephone Co., Ltd.
Aurora	*Bethesda & Stouffville Telephone Co., Ltd. *See* Stouffville.
"	*Woodbridge & Vaughan Telephone Co., Ltd. *See* King.
"	W. A. Winter.
Aylmer	*South Malahide Telephone Co., Ltd.
Port Burwell	
Ayr	Ayr Rural Telephone Co., Ltd.
Ayton	Ayton Telephone Co., Ltd.
"	*Hyman Suroff (Suroff Telephone System). *See* Hanover.
"	Normanby Telephone Co., Ltd.
"	Robert Wightman. *See* Clifford.
Baden	*Wilmot Municipal Telephone System. *See* New Hamburg.
Bancroft	*People's Telegraph & Telephone Co., Ltd.
	And the following systems which connect through the People's Telegraph & Telephone Co., Ltd.:
	Carlow Municipal Telephone System.
	Faraday Municipal Telephone System.
	Monteagle & Herschel Municipal Telephone System.
Barrie	Barrie-Angus Telephone Co., Ltd.
"	Crown Hill Telephone Co., Ltd.
"	*Ivy Thornton Telephone Co., Ltd.
"	Vespra Municipal Telephone System.
Barrie	*Oro Telephone Co., Ltd.
Orillia	
Barrie	*Stroud Telephone Co., Ltd.
"	*The Air Board (Camp Borden Tel. System).
Bath	*Ernestown Rural Tel. Co., Ltd. *See* Odessa.
"	Amherst Island Municipal Telephone System (connects through Ernestown Rural Tel. Co., Ltd.)
Beaverton	Centre Thorah Telephone Co., Ltd.
"	Egypt Telephone Co., Ltd.
Beeton	Beeton Telephone Co., Ltd.
Alliston	
Bradford	
Cookstown	
Tottenham	
Belle River	*Rochester Municipal Telephone System. *See* Woodslee.
Belleville	*McCreary Telephone Co., Ltd.
Belleville	*J. Grant Sprague.
Trenton	
Wellington	
Belleville	Sydney Bell Telephone Association.
Belwood	*West Garafraxa Telephone Co-operative Association, Ltd.
Fergus	
Bethany	*Manvers Municipal Telephone System.
Blind River	Hope Lumber Company's Telephone Line.
" "	Mississauga River Improvement Company.
" "	Golden Rule Tel. Co., Ltd.
Blyth	*Blyth Municipal Telephone System.

Point of Connection.	Name of System.
Bobcaygeon	Bobcaygeon Rural Telephone Co., Ltd.
"	*Dunsford Telephone Light & Power Co-operative Association, Ltd. *See* Dunsford.
Bolton	*Bolton Telephone Co., Ltd.
Bonfield	*Bonfield Telephone Co., Ltd.
Bothwell	*Urban & Rural Telephone Co., Ltd.
Bowmanville	Bethesda Mutual Telephone Co., Ltd.
"	East Darlington Telephone Co., Ltd.
"	Salem Telephone Co., Ltd.
"	*Port Hope Telephone Co., Ltd. *See* Port Hope.
"	*Orono Telephone Co., Ltd.
Bracebridge	*Bracebridge & Muskoka Lakes Telephone Co., Ltd.
"	Monck Municipal Telephone System.
"	*Lake of Bays & Haliburton Telephone Co., Ltd.
"	Muskoka River Telephone Co., Ltd.
"	Muskoka, Victoria & Haliburton Telephone Co., Ltd.
"	Bracebridge & Northwood Telephone Co., Ltd.
"	Purbrook & Fraserburg Telephone Co., Ltd.
"	North Monck Municipal Telephone System.
Bradford	Beeton Telephone Co., Ltd. *See* Beeton.
Brampton	*Chinguacousy Municipal Telephone System.
Brechin	Udney Telephone Co., Ltd.
"	Montreal (Ontario) Telephone Co., Ltd.
"	Point Mara Telephone Co., Ltd.
Bridgeburg, Ridgeway, Stevensville	*Welland County Telephone Co., Ltd.
Bridgenorth	*Harvey Municipal Telephone System.
Brigden, Courtright	*Moore Municipal Telephone System.
Brighton, Campbellford	*Brighton Municipal Telephone System.
Brighton	*Murray-Brighton Telephone System. *See* Frankford.
Brockville	*Addison Rural Independent Telephone Co., Ltd.
Brockville, Prescott	*Leeds & Grenville Independent Telephone Co., Ltd.
Brockville	Mallorytown Telephone Co., Ltd. *See* Mallorytown.
Brooklin	*Home Telephone Co., Ltd. *See* Markham.
Bruce Mines	Aberdeen-Plummer Centre Line Telephone Association, Ltd.
"	Plummer Additional & Lefroy Municipal Telephone System.
"	Plummer, Aberdeen & Galbraith Rural Telephone Association, Ltd.
"	Rose Telephone Co., Ltd.
"	Rydal Bank-Plummer Telephone Co., Ltd.
Brussels, Seaforth	*Brussels, Morris & Grey Municipal Telephone System.
Burk's Falls	*Magnetawan Municipal Telephone System.
Caledon, Orangeville	*Caledon Municipal Telephone System.
Caledonia	Dunnville Consolidated Telephone Co., Ltd. *See* Dunnville.
Cambray, Woodville	*Cambray Telephone Co., Ltd.
Cameron	*Cameron Telephone Co., Ltd.
Campbellford	*Brighton Municipal Telephone System. *See* Brighton.
"	*Percy Municipal Telephone System. *See* Hastings.
Cannington	Edward Blanchard, M.D.
"	Ellis Rural Telephone Association.
"	Henderson Telephone Co., Ltd.
"	George B. Johnston & R. C. Brandon.
"	*Manilla Union Telephone Co., Ltd. *See* Woodville.
"	Saginaw Telephone Company.
"	North Brock Telephone Co., Ltd.
"	Riverview Telephone Co., Ltd.
Cargill	Durham Road Telephone Co., Ltd. *See* Walkerton.
"	South Brant Telephone Co., Ltd. *See* Walkerton.
Carleton Place	Goodwood Rural Telephone Co., Ltd.
"	*Lanark & Ramsay Telephone Association.
"	W. R. Caldwell (Loch End Ranch Private Telephone System).
Carlsbad Springs	*Gloucester Township Telephone Co.. Ltd.
Carp	*Monk Rural Telephone Co., Ltd.
Cayuga, Hagersville, Jarvis	*Erie Telephone Co., Ltd.

Point of Connection.	Name of System.
Chatham	Dover Municipal Telephone System.
Chatsworth	Chatsworth Rural Telephone Co., Ltd.
"	Desboro Telephone Co., Ltd.
"	McKenzie Keward Rural Telephone System.
"	Spey River Telephone Co., Ltd.
"	Sunny Valley Telephone Co., Ltd.
Chesley	Desboro Mooresburg Telephone Co., Ltd.
"	Elderslie-Salem Telephone Association.
"	Fourteenth of Brant Telephone Co., Ltd.
"	Gillies Hill Telephone Co., Ltd.
"	Marmion Telephone Co., Ltd.
"	North Brant Telephone Co., Ltd.
"	North Elderslie Telephone Association.
"	Orr & Steinhoff Telephone Association.
"	Progressive Telephone Co., Ltd.
"	South Elderslie Telephone Co., Ltd.
"	Sullivan & Bentinck Telephone Co., Ltd.
"	Sullivan & Elderslie Telephone Co., Ltd.
"	Town line of Brant & Elderslie Telephone Co., Ltd.
"	Vesta Telephone Co., Ltd.
"	Victory Telephone Co., Ltd.
Chesterville	*A. E. Glasgow. *See* Crysler.
Clarke	*Port Hope Telephone Co., Ltd. *See* Port Hope.
Clifford Ayton	Robert Wightman.
Clinton	Bayfield Municipal Telephone System. (Connects through Tuckersmith Municipal Telephone System.)
Clinton Goderich	Goderich Township Municipal Telephone System.
Clinton	McKillop Municipal Telephone System. *See* Seaforth.
"	Tuckersmith Municipal Telephone System. *See* Seaforth.
Cobden	Acorn Rural Telephone Association, Ltd.
"	Connaught Telephone Association.
"	Fourth Line Telephone Association.
"	Muskrat Lake Telephone Co., Ltd.
"	Osceola Telephone Association.
"	Pastime Telephone Association.
"	Queen's Line Telephone Co., Ltd.
"	Rox Rural Telephone Association.
"	Snake River Telephone Co., Ltd.
"	Wolftown Telephone Co., Ltd.
"	Zion Line Telephone Association, Ltd.
"	Kerr Line Telephone Co., Ltd.
"	*North Renfrew Telephone Co., Ltd. *See* Pembroke.
Coboconk	*Burnt River Telephone Co., Ltd. *See* Fenelon Falls.
"	Bexley Telephone Co., Ltd.
"	Head Lake Telephone Co., Ltd.
"	Norland Independent Telephone Co., Ltd.
"	Rumney Settlement Telephone Co., Ltd.
Cobourg	Front Road Telephone Association.
"	*Haldimand Rural Telephone Co., Ltd.
"	*Cold Springs Rural Telephone Co., Ltd.
"	*Harwood Rural Telephone Co., Ltd.
"	Kingston Road Rural Telephone Association.
Coe Hill	*Coe Hill Rural Telephone Co.
Colborne	*Cramahe Municipal Telephone System.
"	*Haldimand Municipal Telephone System. *See* Grafton.
Coldwater	*Coldwater Municipal Telephone System. And the following systems which connect through the Coldwater Municipal Telephone System: C. G. Millard. *Medonte Municipal Telephone System. *North River Municipal Telephone System.
Comber Tilbury	*Tilbury West Municipal Telephone System.
Coniston	*Mond Nickel Company, Limited.
Cookstown	Beeton Telephone Co., Ltd. *See* Beeton.
"	Innisfil Telephone Co., Ltd. *See* Lefroy.
Copper Cliff	*British American Nickel Corporation, Ltd. *See* Sudbury.
Cottam	*North Gosfield Municipal Telephone System.
Courtright	*Moore Municipal Telephone System. *See* Brigden.

Point of Connection.	Name of System.
Crediton	Thames Road Telephone System. *See* Exeter.
Crediton, Exeter	Crediton Rural Telephone System. (W. J. Orme, M.D.)
Creemore, Stayner	Noisy River Telephone Co., Ltd.
Crysler, Morewood, Chesterville, Finch, Russell, Embrun	*A. E. Glasgow.
Dashwood	*Hay Municipal Telephone System. *See* Hensall.
Delhi	Windham Telephone Company. (Connects through Norfolk County Telephone Company, Ltd.)
"	*Norfolk County Telephone Co., Ltd. *See* Simcoe.
Desbarats	*Johnson Municipal Telephone System.
Deseronto	F. A. Perry Telephone System.
"	D. H. Maracle (Tyendinaga Indian Reserve) Telephone System.
"	*Tyendinaga Municipal Telephone System.
Detlor	*Dungannon Municipal Telephone System.
Douglas	Bromley Telephone Association, Ltd.
"	Brougham & Grattan Telephone Co., Ltd.
"	Evergreen Telephone Co., Ltd.
"	Lightning Telephone Co., Ltd.
"	Foster Bros. Telephone Co., Ltd.
"	Upper Admaston Telephone Co., Ltd.
"	Hyndford Douglas Telephone Association.
Drayton	Union Telephone Co., Ltd.
Dublin, Mitchell, Seaforth	*McKillop, Logan & Hibbert Telephone Co., Ltd.
Dundalk	Bethel Rural Telephone Line.
"	Oldfields Telephone Line.
Dungannon, Goderich, Lucknow	*Goderich Rural Telephone Co., Ltd.
Dunnville, Caledonia	*Dunnville Consolidated Telephone Co., Ltd.
Dunsford, Bobcaygeon	*Dunsford Telephone, Light & Power Co-operative Association, Ltd.
Durham	*Hyman Suroff. *See* Hanover.
Dutton	Dunwich & Dutton Telephone Co., Ltd.
"	*Southwold & Dunwich Telephone Association, Ltd. *See* St. Thomas.
"	*Wallacetown & Lake Shore Telephone Assn., Ltd. *See* Wallacetown.
Echo Bay	*Laird Municipal Telephone System.
"	*MacDonald Municipal Telephone System. (Connects through Laird Municipal Telephone System.)
Eganville, Pembroke	*Rankin Telephone Co.
	And the following systems which connect through the Rankin Telephone Co.:
	Mink Lake Rural Telephone Co., Ltd.
	Brudenell Telephone Co., Ltd.
	*Radcliffe Municipal Telephone System.
	*North Algona Municipal Telephone.
	*Hagarty & Richards Municipal Telephone System.
	*Sherwood Municipal Telephone System.
	*Raglan Municipal Telephone System.
	Lower Bonnechere Telephone Co., Ltd.
	Wilberforce Rural Telephone Co., Ltd.
	Donegal Telephone Co., Ltd.
	Mud Lake Telephone Co., Ltd.
	Augsburg Telephone Association, Ltd.
	Grattan No. 7, Telephone Association, Ltd.
	Dore Bay Telephone Co., Ltd.
Elgin	Elgin-Chaffey's Locks Telephone Co.
"	*South Crosby Rural Telephone Co., Ltd.
Elmvale	*Flos Municipal Telephone System.
Elmwood	*Jas. Alexander.
Embro	*Innerkip Rural Telephone Co., Ltd. *See* Innerkip.
"	*Nissouri Telephone Co., Ltd.

Point of Connection.	Name of System.
Embro	Zorra Telephone Co., Ltd.
Embrun	*A. E. Glasgow. *See* Crysler.
Emsdale	*Muskoka & Parry Sound Telephone Co.
"	Dept. of Lands, Forests & Mines of the Province of Ontario (Algonquin Park Tel. System). (Connects through Muskoka & Parry Sound Tel. Co.).
Ennismore	*Ennismore Municipal Telephone System.
Enterprise	*Enterprise Telephone Co., Ltd.
Erin	*Erin Municipal Telephone System.
Essex	*Maidstone Municipal Telephone System.
"	Colchester North Municipal Telephone System.
Essex Cottam	*Gosfield North Municipal Telephone System.
Essex	*Sandwich South Municipal Telephone System. *See* Windsor.
Exeter	Crediton Rural Telephone System. *See* Crediton.
"	*Hay Municipal Telephone System. *See* Hensall.
"	Blanshard Municipal Telephone System. *See* St. Mary's.
Exeter Crediton	Thames Road Telephone System. (H. K. Hyndman.)
Everett	*Everett Telephone Co., Ltd.
Fenella	*Fenella Rural Telephone Co., Ltd.
Fenelon Falls Coboconk	*Burnt River Telephone Co., Ltd.
Fenelon Falls	*Dysart Municipal Telephone System. And the following systems which connect through the Dysart Municipal Telephone System. *Minden Municipal Telephone System. *Stanhope Municipal Telephone System.
Fenelon Falls	Fenelon Rural Telephone Association.
"	Rosedale Rural Telephone Association.
Fergus	*West Garafraxa Telephone Co-operative Assn., Ltd. *See* Belwood.
Finch	*A. E. Glasgow. *See* Crysler.
Flesherton	*Osprey Municipal Telephone System.
Flinton	*Kaladar & Northern Telephone Co. (Wm. Both.)
Fordwich	*Howick Municipal Telephone System.
Forest	*People's Telephone Co., of Forest, Ltd.
Fournier	*Prescott Rural Telephone Co., Ltd.
Frankford Brighton	*D. S. Austin. (Murray-Brighton Telephone System.)
Franktown	*Beckwith & Montague Rural Telephone Co., Ltd.
Gananoque	South Leeds & Pittsburg Rural Telephone Co., Ltd.
Georgetown	Ashgrove Rural Telephone Co., Ltd.
Gibson's	*Pefferlaw Telephone System.
Glencoe	*Caradoc-Ekfrid Telephone Co., Ltd. *See* Melbourne.
Goderich	*Goderich Rural Telephone Co., Ltd. *See* Dungannon.
"	*Colborne Township Municipal Telephone System.
"	Goderich Township Municipal Telephone System. *See* Clinton.
"	Salkeld Telephone System.
Gorrie	*Wroxeter Rural Telephone Co., Ltd. *See* Wroxeter.
Grafton Colborne	*Haldimand Municipal Telephone System.
Grand Valley	*East Luther Telephone Co., Ltd.
Granton	Blanshard Municipal Telephone System. *See* St. Mary's.
Gravenhurst	Doe Lake Telephone Co., Ltd.
"	Ryde Municipal Telephone System.
Hagersville	*Erie Telephone Co., Ltd. *See* Cayuga.
Haley Station	Haley Station Rural Telephone Association, No. 1.
"	Haley Station Rural Telephone Association, No. 2.
"	North Eastern Telephone Association, No. 3.
Hanover Durham Ayton Neustadt	*Hyman Suroff.
Hanover	Carlsruhe Telephone Association.
"	Brant Telephone Co., Ltd.
Harrietsville	*Harrietsville Telephone Association, Ltd.
Harriston	Minto Telephone Co., Ltd.
Harrow	Gore Mutual Telephone Co., Ltd.
"	South Colchester Telephone Co., Ltd.

Point of Connection.	Name of System.
Harrowsmith Arden	*Arden and Parham Telephone System. And the following systems which connect through the Arden and Parham Telephone System: Conboy Telephone System (H. A. Conboy). Elmtree Telephone System. McLean Telephone System. Tichborne Rural Telephone Association. Clarendon Telephone System (Robt. Francis).
Hastings Campbellford	*Percy Municipal Telephone System.
Havelock	Belmont Municipal Telephone System.
Hawkesbury	Scottish Canadian Magnesite Co., Ltd.
Hensall Exeter Dashwood	*Hay Municipal Telephone System.
Hensall	Tuckersmith Municipal Telephone System. *See* Seaforth.
Hepworth	Amabel Telephone Association.
"	Maple Grove Telephone Association.
"	Mount Horeb Telephone Co., Ltd.
"	Park Head Telephone Association.
"	Spring Creek Telephone Association.
Hespeler	*Waterloo Municipal Telephone System. *See* Kitchener.
Huntsville	*W. E. Campsall. (Muskoka Independent Telephone System.)
"	*Huntsville & Lake of Bays Telephone Co., Ltd.
"	*Huntsville & Portage Telephone Association.
"	Ravenscliffe Telephone Co., Ltd.
"	Grunwald Telephone Line. (J. W. White.)
"	Fairyport Telephone Line (E. J. Ecclestone).
Ingersoll	*Ingersoll Telephone Co., Ltd.
Innerkip Plattsville Tavistock Woodstock Embro	*Innerkip Rural Telephone Co., Ltd.
Inwood	*Brooke Municipal Telephone System. *See* Alvinston.
Iron Bridge	*Iron Bridge Telephone Co., Ltd.
Jarvis	*Erie Telephone Co., Ltd. *See* Cayuga.
Keene Peterboro	*Otonabee Municipal Telephone System.
Kincardine	Lake Shore Mutual Telephone Co., Ltd. (connects through Bruce Municipal Telephone System).
Kincardine Port Elgin Paisley	*Bruce Municipal Telephone System.
King Aurora Richmond Hill	*Woodbridge & Vaughan Telephone Co., Ltd.
Kingston	*Leeds & Frontenac Rural Telephone Co., Ltd. *See* Seeley's Bay.
Kingsville	New California Telephone Co., Ltd.
"	Scratch & Palmer Telephone System.
"	Section Telephone System. (Wendell J. Wigle and Howard Wigle.)
Kitchener Waterloo Preston Hespeler	*Waterloo Municipal Telephone System.
Lakefield	*Dummer Municipal Telephone System.
Lanark	*Hopetown Telephone Co., Ltd.
"	*Lavant-Dalhousie Telephone Co., Ltd.
"	*Mississippi Telephone Co., Ltd.
Lansdowne	*Lansdowne Rural Telephone Co., Ltd.
Leamington	Mersea Municipal Telephone System.
"	*Pelee Municipal Telephone System.
"	White Telephone Co., Ltd.
Lefroy Cookstown	*Innisfil Telephone Co., Ltd.

Point of Connection	Name of System.
Lindsay	Hogg & Lytle, Limited.
Linwood, Wellesley	*Wellesley Municipal Telephone System.
Listowel	*Molesworth Independent Telephone Co., Ltd.
Little Britain	*Little Britain Telephone Co., Ltd.
Lobo	*London Township Municipal Telephone System. *See* London.
Lombardy	*Elmsley South Rural Telephone Co., Ltd.
London, St. Thomas	*Belmont Telephone Co-operative Association, Ltd. *See* St. Thomas.
London	*Byron Telephone Co., Ltd.
London, Lucan, Strathroy, Lobo	*London Township Municipal Telephone System.
Lucan	Mooreville Telephone Association.
"	*London Township Municipal Telephone System. *See* London.
Lucknow	*Goderich Rural Telephone Co., Ltd. *See* Dungannon.
"	*Huron & Kinloss Municipal Telephone System. *See* Ripley.
"	Lucknow & Kinloss Telephone Association.
Lyndhurst	*Lyndhurst Rural Telephone Co., Ltd.
MacLennan	*Tarbutt Municipal Telephone System.
Madoc	Plane Settlement Telephone Co., Ltd.
Mallorytown, Brockville	*Mallorytown Telephone Co., Ltd.
Markdale	East Grey Telephone Co., Ltd.
"	A. A. Lyons. (Lyons Telephone System.)
"	Thomas Mercer. (Green Hill Telephone System.)
"	Euphrasia Municipal Telephone System.
"	Glenelg Municipal Telephone System.
Markham, Pickering, Brooklin, Uxbridge, Unionville	*The Home Telephone Co., Ltd.
Marmora	Lily Creek Telephone Co., Ltd.
"	Northern Mutual Telephone Association.
"	Marmora Municipal Telephone System.
Martintown	*Martintown Rural Telephone Co., Ltd.
Massey	La Cloche Rural Telephone Co., Ltd.
"	Victoria Rural Telephone Co., Ltd.
"	West Lake Telephone Co., Ltd.
Maxville	*Roxborough Municipal Telephone System. *See* Moose Creek.
Meaford	Blind Line Telephone Co., Ltd.
"	St. Vincent Municipal Telephone System.
"	*Beaver Valley Municipal Telephone System. *See* Thornbury.
Melbourne, Mt. Brydges, Strathroy, Glencoe	*Caradoc-Ekfrid Telephone Co., Ltd.
Merlin	Tilbury East Municipal Telephone System. *See* Tilbury.
Metcalfe	*Metcalfe Rural Telephone Co., Ltd.
Midland	Mountain Telephone System.
"	West Tay Municipal Telephone System.
Mildmay, Teeswater	*South Bruce Rural Telephone Co., Ltd.
Millbrook	*Millbrook Rural Telephone Co., Ltd. And the following systems which connect through the Millbrook Rural Telephone Co., Ltd.: Cavan Rural Telephone Co., Ltd. Fallis Line Telephone Co., Ltd. North Cavan Rural Telephone Co., Ltd.
Milton	Bousfield Telephone Line.
"	Halton Telephone Co., Ltd.
"	Milton Telephone Co., Ltd.
Milverton	*Mornington Municipal Telephone System.
Minesing	*Minesing Telephone System (A. Ronald).
"	Minesing Telephone Co., Ltd. (connects through Minesing Tel. System).
Mitchell	*McKillop, Logan & Hibbert Telephone Co., Ltd. *See* Dublin.
"	*Blanshard Municipal Telephone System. *See* St. Mary's.

Point of Connection.	Name of System.
Moose Creek, Maxville	*Roxborough Municipal Telephone System.
Morewood	*A. E. Glasgow. *See* Crysler.
Moscow	*Moscow Rural Telephone Association. (E. L. Van Luven.) And the following systems which connect through the Moscow Rural Telephone Association: Bellrock Shimo Telephone Co., Ltd. Desmond Rural Telephone Co., Ltd. Addington Telephone Co., Ltd. Verona & Bellrock Telephone Co., Ltd. Portland Rural Telephone Co. (Joseph Foster). Moscow Mutual Telephone Co., Ltd.
Mount Albert, Newmarket	*Mount Albert Telephone Co., Ltd.
Mount Brydges	*Caradoc-Ekfrid Telephone Co., Ltd., *See* Melbourne.
Mount Forest	*Conn Telephone Co., Ltd.
"	Mount Forest, Wellington & Grey Telephone Co., Ltd.
Mount Julian	*Apsley Telephone Co., Ltd.
Nairn Centre	Lorne Power Company, Ltd.
Napanee	Fretts & Briscoe Telephone Association.
"	Hawley Telephone Co., Ltd.
"	T. H. Herrington.
"	Lennox Telephone Co., Ltd.
"	Palace Road Telephone Co., Ltd.
"	F. A. Perry.
"	Pleasant Valley Telephone Co., Ltd.
"	Riverdale Rural Telephone Association.
Navan	*Russell Rural Telephone Co., Ltd.
Neustadt	*Hyman Suroff. *See* Hanover.
Newburgh	Camden Independent Telephone Co., Ltd.
"	Selby Telephone Co., Ltd.
New Dundee, Plattsville	New Dundee Rural Telephone Co., Ltd.
New Hamburg	*North Easthope Municipal Telephone System. *See* Shakespeare.
New Hamburg, Baden	*Wilmot Municipal Telephone System.
Newmarket	Doane Telephone Association.
"	*Mount Albert Telephone Co., Ltd. *See* Mount Albert.
North Bay	James Fowler. (Passmore-Fowler Telephone Line.)
"	Widdifield Municipal Telephone System.
"	*Temiskaming & Northern Ontario Railway Commission. And the following systems which connect through the T. & N. O. Railway Commission: *Cochrane Municipal Telephone System. *Porcupine Telephone Company. *Temiskaming Telephone Co., Ltd. Government Telephone Line. (Ville Marie to New Liskeard.) *Kerns Municipal Telephone System. *Hilliard Municipal Telephone System.
Northcote	*Northcote Farmers' Telephone Co., Ltd.
North Gower	*Hazeldean Rural Telephone Co., Ltd. *See* Ottawa.
Norwich	*North Norwich Municipal Telephone System. *See* Woodstock.
Oakwood	*Oakwood Telephone Co., Ltd.
Odessa, Bath	*Ernestown Rural Telephone Co., Ltd.
Oil Springs	*Dawn Municipal Telephone System. *See* Rutherford.
Omemee	Omemee Telephone Co., Ltd.
"	Emily Municipal Telephone System.
Orangeville, Shelburne	*The Robert Henry Edgar Telephone Co., Ltd.
Orangeville	*Caledon Municipal Telephone System. *See* Caledon.
"	*Mono Mills Independent Telephone Co., Ltd.
Orillia	Ardtrea Telephone Co., Ltd.
"	Champlain Point Telephone Co., Ltd.
"	Coulson Jarratt Telephone Co., Ltd.
"	O'Connell-Rathburn Telephone Co., Ltd.
"	Forest Home Telephone Co., Ltd.
"	Mutual Telephone Co., Ltd.

Point of Connection.	Name of System.
Orillia	*Oro Telephone Co., Ltd. *See* Barrie.
"	Pinegrove Telephone Association, Ltd.
"	*Sebright Telephone Co., Ltd.
"	Uhthoff Telephone Co., Ltd.
"	Uptergrove Telephone Co., Ltd.
"	Atherley Telephone Co., Ltd.
"	Hampshire Telephone Co., Ltd.
"	Rama Mara Telephone Co., Ltd.
Ottawa North Gower	*Hazeldean Rural Telephone Co., Ltd.
Otterville	*Norfolk County Telephone Co., Ltd. *See* Simcoe.
Owen Sound	Balaclava Telephone Co., Ltd.
"	Ben Allen Telephone Co., Ltd.
"	Bognor Telephone Co., Ltd.
"	Centre Road Telephone Co., Ltd.
"	Derby Telephone Co., Ltd.
"	Fifth Line Telephone Co., Ltd.
"	Glen Eden Telephone Co., Ltd.
"	Hoath Head & Grey Telephone Co., Ltd.
"	Jackson Telephone Co., Ltd.
"	Kemble-Sarawak Telephone Co., Ltd.
"	Leith & Annan Telephone Co., Ltd.
"	Maple Leaf Telephone Co., Ltd.
"	Pleasant View Telephone Co., Ltd.
"	Silcote Telephone Co., Ltd.
"	South Diagonal Telephone Co., Ltd.
"	Sydenham Union Telephone Co., Ltd.
"	Woodford Telephone Co., Ltd.
Paisley	*Bruce Municipal Telephone System. *See* Kincardine.
Palmerston	Hawthorne Hill Rural Telephone Co., Ltd.
Parkhill Arkona	*Parkhill Arkona Telephones, Ltd.
Parkhill Strathroy	*West Williams Rural Telephone Association, Ltd.
Parry Sound	*Canadian Explosives, Limited.
"	Valley Farm Telephone System (Mark Taylor).
"	*McKellar Municipal Telephone System.
Pembroke	Alice Telephone Co., Ltd.
"	Petawawa Rural Telephone Co., Ltd.
"	Tenth Concession Alice & Fraser Telephone Co., Ltd.
"	Indian River Telephone Association.
"	Petawawa Military Camp Telephone System.
"	Town Line Telephone Association of Stafford & Pembroke, Ltd.
"	Pembroke & Mud Lake Telephone Co., Ltd.
Pembroke Cobden	*North Renfrew Telephone Co., Ltd. Westmeath Seventh Line Telephone Co., Ltd. (connects through North Renfrew Telephone Co., Ltd.).
Pembroke	*Rankin Telephone Co. *See* Eganville.
Penetang	*Tiny Municipal Telephone System.
Perth	*Balderson Telephone Association.
"	Drummond Centre Telephone Co., Ltd.
"	Drummond & Elmsley Telephone Association.
"	Fourth Line of Bathurst Telephone Co., Ltd.
"	Ferry Road Telephone Co., Ltd.
"	Perth & Christie's Lake Telephone Co., Ltd.
"	Scotch Line & Stanleyville Telephone Co., Ltd.
"	Second Line Drummond Telephone Co., Ltd.
"	Black Lake Telephone Co., Ltd.
"	Maberly Telephone Co., Ltd.
Peterboro	*Otonabee Municipal Telephone System. *See* Keene.
"	*Douro Municipal Telephone System.
Pickering	*Home Telephone Co., Ltd. *See* Markham.
Picton	Gore "G" Telephone Co., Ltd.
"	*Marysburg Telephone Company.
"	*People's Mutual Telephone Co., Ltd.
Plattsville	*Innerkip Rural Telephone Co., Ltd. *See* Innerkip.
"	New Dundee Rural Telephone Co., Ltd. *See* New Dundee.
"	*Princeton & Drumbo Telephone Co., Ltd. *See* Princeton.
Port Burwell	*South Malahide Telephone Co., Ltd. *See* Aylmer.
"	*Houghton & Bayham Telephone Co., Ltd. (connects through South Malahide Telephone Co.'s Port Burwell Exchange.)

Point of Connection.	Name of System.
Port Dover	*Norfolk County Telephone Co., Ltd. *See* Simcoe.
Port Elgin	*Bruce Municipal Telephone System. *See* Kincardine.
Port Hope	*A. C. Beatty.
Port Hope, Clarke, Bowmanville	*Port Hope Telephone Co., Ltd.
Port Hope	*A. L. Russell, M.D.
Port Rowan	South Norfolk Telephone Co., Ltd. The following systems connect through the South Norfolk Telephone Co., Ltd.: Houghton & Walsingham Telephone Co., Ltd. Unger Telephone System.
Powassan	Chisholm Municipal Telephone System.
"	J. B. Moore and M. Cheaney. (Nipissing Telephone Line.)
"	Nipissing Municipal Telephone System.
Prescott	*Leeds & Grenville Independent Telephone Co., Ltd. *See* Brockville.
Preston	*Waterloo Municipal Telephone System. *See* Kitchener.
Princeton, Plattsville	*Princeton & Drumbo Telephone Co., Ltd.
Renfrew	Admaston Rural Telephone Association, Ltd.
"	Balsam Hill Telephone Co., Ltd.
"	*Calabogie & Renfrew Telephone Association. (M. J. O'Brien.)
Renfrew, Arnprior	*Horton & McNab Telephone Co., Ltd.
Renfrew	*Madawaska Telephone Association, Ltd.
"	North Bonnechere Telephone Association, Ltd.
"	North Horton Telephone Co., Ltd.
"	Renfrew & Shamrock Telephone Association, Ltd.
"	South McNaughton Telephone Co., Ltd.
Riceville	*South Plantagenet Rural Telephone Co., Ltd.
Richards Landing	*The Richards Landing Central Telephone Exchange (Proprietor, Miss Helen Good), connecting with: Richards Landing Municipal Telephone Club. St. Joseph's Island Telephone Co., Ltd. Jocelyn Municipal Telephone System. Gawas & Shore Road Telephone Co.
Richmond Hill	*Bethesda & Stouffville Telephone Co., Ltd. *See* Stouffville.
"	*Woodbridge & Vaughan Telephone Co., Ltd. *See* King and Woodbridge.
Ridgeway	*Welland County Telephone Co., Ltd. *See* Bridgeburg.
Ripley, Lucknow	*Huron & Kinloss Municipal Telephone System.
Rockwood	Rockwood & Oustic Telephone Co., Ltd.
Rodney, West Lorne	Aldborough Farmers' Telephone Association, Ltd.
Rodney, West Lorne	New Glasgow Telephone Co., Ltd.
Roseneath	*Alnwick Rural Telephone Co., Ltd.
Rosseau	*Humphrey Municipal Telephone System. And the following systems which connect through the Humphrey Municipal Telephone System: *Christie Municipal Telephone System. *Spence Monteith Telephone Co., Ltd.
Russell	*A. E. Glasgow. *See* Crysler.
Rutherford, Oil Springs	*Dawn Municipal Telephone System.
Rutherglen	*Rutherglen Telephone Co., Ltd.
Sault Ste. Marie	*Algoma Central & Hudson Bay Railway.
"	Jas. Elliott, Jr.
"	Goulais Bay Telephone Co., Ltd.
"	Greenwood Telephone Association, Ltd.
"	Korah Central Telephone Co., Ltd.
"	Mount Granite Telephone Co., Ltd.
"	G. H. Farmer.
"	Superior Telephone Club.
"	Tarentorus Telephone Co., Ltd.
"	Korah Base Line Telephone Co., Ltd.
Schomberg, Tottenham	*Schomberg Telephone Co., Ltd.

Point of Connection.	Name of System.
Scotland	*Norfolk County Telephone Co., Ltd. *See* Simcoe.
Seaforth	*McKillop, Logan & Hibbert Telephone Co., Ltd. *See* Dublin.
"	*Brussels, Morris & Grey Municipal Telephone System. *See* Brussels.
Seaforth	*McKillop Municipal Telephone System.
Clinton	
Seaforth	*Tuckersmith Municipal Telephone System.
Clinton	
Hensall	
Seeley's Bay	*Leeds and Frontenac Rural Telephone Co., Ltd.
Kingston	
Severn Bridge	Sparrow Lake Private Telephone Line.
Shakespeare	*North Easthope Municipal Telephone System.
Stratford	
Tavistock	
New Hamburg	
Shelburne	Back Line Telephone Co., Ltd.
"	*Edgar Telephone System. *See* Orangeville.
"	Maple Grove Telephone Co., Ltd.
"	Violet Hill Rural Telephone Co., Ltd.
"	Rocktown Telephone Association.
"	Melancthon Telephone Co., Ltd.
Simcoe	*Norfolk County Telephone Co., Ltd.
Otterville	
Waterford	
Delhi	
Port Dover	
Scotland	
Smith's Falls	Brockville Road Rural Telephone Co., Ltd.
"	Glenview Rural Telephone Co., Ltd.
"	*Rural Telephone Co. of Kitley, Ltd.
"	*Wolford Rural Telephone Co., Ltd.
"	Roseville Rural Telephone Co., Ltd.
Sombra	*Lambton Telephone Co., Ltd.
Southampton	Chippawa Hill Telephone Co., Ltd.
"	Saugeen Rural Telephone Co., Ltd.
Spanish	Massey Station Telephone Co., Ltd.
Sparta	*Sparta Rural Telephone Co., Ltd.
Stayner	*Noisy River Telephone Co., Ltd. *See* Creemore.
Stevensville	*Welland County Telephone Co., Ltd. *See* Bridgeburg.
Stouffville	*Bethesda & Stouffville Telephone Co., Ltd.
Aurora	
Richmond Hill	
Thornhill	
Stratford	*North Easthope Municipal Telephone System. *See* Shakespeare.
"	Peter F. Quinlan, M.D.
"	*Sebringville Telephone Co., Ltd.
Strathroy	*Adelaide Telephone Co., Ltd.
"	*Alex. G. McKenzie. (Coldstream Telephone System.)
"	*Caradoc-Ekfrid Telephone Co., Ltd. *See* Melbourne.
"	*London Township Municipal Telephone System.
"	*West Williams Rural Telephone Association. *See* Parkhill.
Sudbury	*Algoma Eastern Railway Co.
Sudbury	*British America Nickel Corporation, Ltd.
Copper Cliff	
Sudbury	*R. V. Tremblay. (Chelmsford Telephone Line.)
"	Wahnapitae Power Co., Ltd.
Sunderland	*Sunderland Telephone Co., Ltd.
Sundridge	Strong Municipal Telephone System.
Sutton West	Sutton & North Gwillimbury Telephone Co., Ltd.
Sydenham	Roman Catholic Episcopal Corporation of the Diocese of Kingston.
"	Rosedale Rural Telephone Co., Ltd.
St. Mary's	*East Middlesex Telephone Co., Ltd. *See* Thorndale.
St. Mary's	*Blanshard Municipal Telephone System.
Exeter	
Mitchell	
Granton	
St. Thomas	*Belmont Telephone Co-operative Association, Ltd. *See* London.
"	*Fingal Telephone Co., Ltd.
St. Thomas	*Southwold & Dunwich Telephone Association, Ltd.
Dutton	
St. Thomas	*Yarmouth Rural Telephone Co., Ltd.

Point of Connection.	Name of System.
Tamworth	*Redden Telephone Co., Ltd.
Tara	Arran, No. 1, Telephone Association.
"	Tara-Keady Telephone Co., Ltd.
Tavistock	*Innerkip Rural Telephone Co., Ltd. *See* Innerkip.
"	*North Easthope Municipal Telephone System. *See* Shakespeare.
Teeswater	*South Bruce Rural Telephone Co., Ltd. *See* Mildmay.
Thamesford	*George R. Mills. (Mills Telephone System.)
Thamesville	*Thamesville Telephone Co., Ltd.
Thedford	*Thedford, Arkona & East Lambton Telephone Co., Ltd.
Thessalon	Thessalon Municipal Telephone System.
"	Livingstone Rural Telephone Co., Ltd.
Thornbury Meaford	Beaver Valley Municipal Telephone System.
Thornbury	Camperdown Telephone Co., Ltd.
"	C. W. Hartman.
Thorndale St. Marys	*East Middlesex Telephone Co., Ltd.
Thornhill	*Bethesda & Stouffville Telephone Co., Ltd. *See* Stouffville.
"	*Woodbridge & Vaughan Telephone Co., Ltd. *See* Woodbridge.
Tilbury Merlin	Tilbury East Municipal Telephone System.
Tilbury	*Tilbury West Municipal Telephone System. *See* Comber.
Tillsonburg	*Houghton, Bayham & Tillsonburg Telephone Co., Ltd.
"	*Malahide & Bayham Telephone Association, Ltd.
"	*Norfolk & Tillsonburg Telephone Co., Ltd.
Tottenham	Beeton Telephone Co., Ltd. *See* Beeton.
Tottenham	*Schomberg Co., Ltd. *See* Schomberg.
Trenton	Crews Telephone Co., Ltd.
"	MacDonald Telephone Association.
"	*J. Grant Sprague. *See* Belleville.
Tweed	Hungerford Municipal Telephone System.
Unionville	*Home Telephone Co., Ltd. *See* Markham.
Utterson	Watt Municipal Telephone System.
Uxbridge	*Home Telephone Co., Ltd. *See* Markham.
Vankleek Hill	*Glengarry Telephone Co., Ltd. *See* Alexandria.
Verner	*Verner Telephone System.
Verona	*Verona & Frontenac Telephone Co., Ltd.
Victoria Harbor	*Tay Municipal Telephone System.
Walkerton Cargill	Durham Road Telephone Co., Ltd.
Walkerton Cargill	South Brant Telephone Co., Ltd.
Wallacetown Dutton West Lorne	*Wallacetown Lake Shore Telephone Association, Ltd.
Warren	*Dunnett Municipal Telephone System.
Warsaw	*Dummer Municipal Telephone System.
Waterford	*Norfolk County Telephone Co., Ltd. *See* Simcoe.
Waterloo	*Waterloo Municipal Telephone System. *See* Kitchener.
Watford	*Brooke Municipal Telephone System. *See* Alvinston.
Webbwood	Shakespeare Telephone Co., Ltd.
"	Birch Lake Telephone Co., Ltd.
Wellesley	*Wellesley Municipal Telephone System. *See* Linwood.
Wellington	*J. Grant Sprague. *See* Belleville.
West Lorne	Aldborough Farmers' Telephone Association, Ltd. *See* Rodney.
"	New Glasgow Telephone Co., Ltd. *See* Rodney.
"	*Wallacetown & Lake Shore Telephone Association, Ltd. *See* Wallacetown.
Westport	*Westport Rural Telephone Co., Ltd.
Wheatley	*Balmoral Telephone System.
	The following systems connect through the Balmoral Telephone System:
	Romney Telephone System.
	Wheatley Telephone Co., Ltd.
Wiarton	Clavering Telephone Co., Ltd.
"	*William Gillies. (Gillies Telephone System.)
"	Silver Creek Telephone Co., Ltd.

Point of Connection.	Name of System.
Wiarton	Cecil Swale Telephone Association.
"	Lake Charles Telephone Co., Ltd.
"	Boat Lake Telephone Co., Ltd.
"	Zion & Wolseley Telephone Co., Ltd.
"	Keppell Rural Telephone Co., Ltd.
Windsor, Essex	*Sandwich South Municipal Telephone System.
Windsor	Sandwich West Co-operative Telephone Co., Ltd.
Woodbridge, Richmond Hill, Thornhill	*Woodbridge & Vaughan Telephone Co., Ltd.
Woodslee, Belle River	*Rochester Municipal Telephone System.
Woodstock	Bond's Corner Telephone Co., Ltd.
"	Dingwall Telephone Co., Ltd.
"	Excelsior Telephone Co., Ltd.
"	Fairview Telephone Co., Ltd.
"	Fraser Telephone Co., Ltd.
"	Ingleside Telephone Co., Ltd.
"	Innerkip Rural Telephone Co., Ltd. *See* Innerkip.
"	Mapleshade Telephone Co., Ltd.
"	Peerless Telephone Co., Ltd.
"	Penhurst Telephone Co., Ltd.
"	Pioneer Telephone Co., Ltd.
"	Riverside Telephone Co., Ltd.
"	Spring Creek Telephone Co., Ltd.
Woodstock, Norwich	*North Norwich Municipal Telephone System.
Woodville	*Cambray Telephone Co., Ltd. *See* Cambray.
"	East Woodville Telephone Co., Ltd.
"	Eldon Union Telephone Co., Ltd.
Woodville, Cannington	*Manilla Union Telephone Co., Ltd.
Woodville	Manse Grove Telephone Co., Ltd.
"	Woodville-Glen Telephone Association.
Wroxeter, Gorrie	*Wroxeter Rural Telephone Co., Ltd.
Yarker	*Yarker Telephone Co. (Manley Foster.)
	And the following systems which connect through the Yarker Telephone Co.:
	B. D. & H. Telephone Line.
	Yarker Mutual Telephone Association.
	Yarker Rural Telephone Co., Ltd.

RETURN FROM THE RECORDS

OF THE

BY-ELECTIONS

TO THE

LEGISLATIVE ASSEMBLY IN 1924

HELD ON 23rd DAY OF JUNE AND 7th DAY OF JULY

SHEWING:

(1) The number of Votes Polled for each Candidate in each Electoral District in which there was a contest;
(2) The majority whereby each successful Candidate was returned;
(3) The total number of Votes Polled;
(4) The number of Votes remaining Unpolled;
(5) The number of names on the Polling Lists;
(6) The number of Ballot Papers sent out to each Polling Place;
(7) The Used Ballot Papers;
(8) The Unused Ballot Papers;
(9) The Rejected Ballot Papers;
(10) The Cancelled Ballot Papers;
(11) The Declined Ballot Papers; and
(12) The Ballot Papers taken from Polling Places.

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TORONTO

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TORONTO
CANADA

LIST OF RETURNING OFFICERS AT BY-ELECTIONS, 1924

Constituency	Returning Officer	Post Office
1. Waterloo, South	John G. Alison	Galt.
2. Toronto, Northwest, Seat "A"	William E. Dunlop	Toronto.

STATEMENT of Votes Polled, number of Polling Booths, and the number of names on Voters' Lists at By-Elections on 23rd June and 7th July, 1924.

Constituency	No. of Polling Booths	No. of Votes Polled	No. of Names on Voters' Lists
Waterloo, South	67	12,195	22,661
Toronto, Northwest, Seat "A"	149	9,323	60,178

SUMMARY of votes cast at the By-Elections held on 23rd June and 7th July, 1924, showing the number of votes polled for each candidate and the majority accorded to the one elected in each Constituency.

Constituency	Candidates	Votes Polled
Waterloo, South	Karl K. Homuth	7,425
	Wm. C. Shaw	4,770
	Majority for Homuth	2,655
Toronto, Northwest, Seat "A"	William H. Edwards	7,661
	John A. Young	1,662
	Majority for Edwards	5,999

C. F. Bulmer,
Clerk of the Crown in Chancery.

Statement by Returning Officer respecting Votes Polled and Ballot Papers used at the Polling Places of the Electoral District of Toronto, Northwest, Seat "A," at the By-Election held on the Seventh Day of July, 1924.

Electoral District	Numbers of Polling Places.	Names of Candidates and Number of Votes Polled for each.		Voters at each Polling Place.			Ballot Papers sent out and how disposed of in each Polling Place.						
				Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of names on the Polling Lists	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
		Edwards	Young										
Toronto, N.W.— Seat "A"	Ward 4 ..... No. 78	23	4	27	208	235	250	27	223	....	....	....	....
	" ..... " 79- 80	36	9	45	400	446	425	46	379	1	....	....	....
	" ..... " 81- 82	59	24	83	409	496	475	87	388	4	....	....	....
	" ..... " 83- 84	49	14	63	469	533	500	64	436	1	....	....	....
	" ..... " 85	28	14	42	149	192	200	43	157	1	....	....	....
	" ..... " 86- 87	54	10	64	405	469	450	64	386	....	....	....	....
	" ..... " 88	32	5	37	211	248	250	37	213	....	....	....	....
	" ..... " 89- 90	81	9	90	350	440	425	90	335	....	....	....	....
	" ..... " 91- 92	69	22	91	394	486	475	92	383	1	....	....	....
	" ..... " 93- 94	85	11	96	412	508	500	96	404	....	....	....	....
	" ..... " 95	38	4	42	157	199	200	42	158	....	....	....	....
	" ..... " 96- 97	71	15	86	334	422	400	88	312	1	1	....	....
	" ..... " 114-115	65	3	68	350	418	400	68	332	....	....	....	....
	" ..... " 116	30	1	31	191	222	225	31	194	....	....	....	....
	" ..... " 117-118	111	8	119	441	560	550	119	431	....	....	....	....
	" ..... " 119-120	93	8	101	291	393	400	102	298	....	1	....	....
	" ..... " 121-122	111	1	112	358	470	450	112	338	....	....	....	....
	" ..... " 123-124	76	5	81	407	488	475	81	394	....	....	....	....
	" ..... " 125-126	115	9	124	429	553	550	124	426	....	....	....	....

"	"	127	32	3	35	177	212	225	35	190						
"	"	136-137	64	28	92	399	492	475	93	382	1					
"	"	138-139	32	2	34	314	348	325	34	291						
"	"	140-141	59	..	59	310	369	350	59	291						
Ward 5	"	71- 72	45	9	54	517	571	550	54	496						
"	"	73- 74	36	7	43	440	483	475	43	432						
"	"	75- 76	45	5	50	441	491	475	50	425						
"	"	77	31	2	33	180	213	225	33	192						
"	"	78- 79	66	8	74	366	443	425	77	348	2	1				
"	"	80- 81	49	6	55	543	599	550	56	494		1				
"	"	82	29	1	30	197	227	225	30	195						
"	"	83- 84	84	9	93	386	479	475	93	382						
"	"	85- 86	59	11	70	491	561	550	70	480						
"	"	87- 88	61	12	73	455	528	500	73	427						
"	"	89- 90	30	18	48	361	409	400	48	352						
"	"	91- 92	44	11	55	367	422	400	55	345						
"	"	93	27	8	35	183	228	225	35	190						
"	"	94- 95	37	18	55	374	429	425	55	370						
"	"	96- 97	27	14	41	437	479	450	42	408		1				
"	"	98- 99	32	11	43	453	496	475	43	432						
"	"	100-101	47	12	59	439	498	475	59	416						
"	"	102-103	91	15	106	442	548	525	106	419						
"	"	104	38	16	54	289	343	325	54	271						
"	"	105-106	97	12	109	485	594	550	109	441						
"	"	107-108	87	13	100	479	580	550	101	449		1				
"	"	109-110	52	13	65	413	478	450	65	385						
"	"	111-112	40	5	45	321	366	350	45	305						
"	"	113-114	32	8	40	467	507	475	40	435						
"	"	115-116	27	14	41	365	406	375	41	334						
"	"	117-118	39	13	52	453	505	475	52	423						
"	"	119-120	42	9	51	345	396	375	51	324						
"	"	121-122	48	5	53	426	479	450	53	397						
"	"	123-124	46	9	55	408	463	450	55	395						
"	"	125-126	70	6	76	334	411	375	77	298	1					
"	"	127-128	37	9	46	527	573	550	46	504						
"	"	129-130	65	9	74	419	493	475	74	401						
"	"	131-132	39	5	44	374	418	375	44	331						
"	"	133-134	29	24	53	465	519	475	54	421	1					
"	"	135-136	38	18	56	413	470	450	57	393	1					
"	"	137-138	66	20	86	321	408	375	87	288		1				
"	"	139-140	43	14	57	429	486	475	57	418						
"	"	141	36	1	37	223	260	250	37	213						
"	"	142-143	64	22	86	356	442	425	86	339						
"	"	144-145	45	15	60	429	489	475	60	415						
"	"	146-147	58	18	76	510	586	550	76	474						

Statement by Returning Officer respecting Votes Polled and Ballot Papers used at the Polling Places of the Electoral District of Toronto, Northwest, Seat "A," at the By-Election held on the Seventh Day of July, 1924—*Continued.*

Electoral District.	Numbers of Polling Places.	Names of Candidates and Number of Votes Polled for each.		Voters at each Polling Place.			Ballot Papers sent out and how disposed of in each Polling Place.						
				Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of names on the Polling Lists	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
		Edwards	Young										
Toronto, N.W.—Seat "A"—*Con.*	Ward 5.....No. 148	22	7	29	189	218	200	29	171	....	....	....	....
	" ..... " 149-150	54	14	68	449	517	475	68	407	....	....	....	....
	" ..... " 151-152	62	14	76	348	425	400	77	323	1	....	....	....
	" ..... " 153	29	6	35	143	178	175	35	140	....	....	....	....
	" ..... " 154-155	51	12	63	418	481	475	63	412	....	....	....	....
	" ..... " 156-157	37	23	60	384	444	425	60	365	....	....	....	....
	" ..... " 158	42	6	48	204	254	250	50	200	1	1	....	....
	" ..... " 159-160	99	10	109	358	468	450	110	340	1	....	....	....
	" ..... " 161-162	143	22	165	324	493	475	169	306	4	....	....	....
	" ..... " 163-164	44	2	46	243	289	275	46	229	....	....	....	....
	" ..... " 165	53	2	55	192	247	250	55	195	....	....	....	....
	" ..... " 166	29	2	31	153	384	375	31	344	....	....	....	....
	" ..... " 167-168	143	18	161	261	422	400	161	239	....	....	....	....
	" ..... " 169-170	68	13	81	362	444	425	82	343	1	....	....	....
	" ..... " 171	51	2	53	164	218	225	54	171	1	....	....	....
	" ..... " 172-173	129	15	144	219	363	350	144	206	....	....	....	....
	" ..... " 174-175	55	19	74	317	392	375	75	300	1	....	....	....
	" ..... " 176-177	72	13	85	391	477	450	86	364	1	....	....	....
	" ..... " 178	74	18	92	171	263	250	92	158	....	....	....	....
	" ..... " 179-180	85	10	95	377	474	450	97	353	2	....	....	....
	" ..... " 181-182	79	11	90	376	466	450	90	360	....	....	....	....
	" ..... " 183	37	..	37	160	197	200	37	163	....	....	....	....
	" Christie St. Hospital.....	87	7	94	135	230	250	95	155	1	....	....	....
	" 6.....No. 122	26	7	33	221	254	250	33	217	....	....	....	....

"	"	123	50	2	52	305	357	350	52	298	....	....	....	....			
"	"	124	46	4	50	245	295	275	50	225	....	....	....	....			
"	"	125-126	86	15	101	432	533	500	101	399	....	....	....	....			
"	"	127-128	45	15	60	508	568	550	60	490	....	....	....	....			
"	"	129	31	10	41	266	307	300	41	259	....	....	....	....			
"	"	130-131	36	10	46	491	537	500	46	454	....	....	....	....			
"	"	132-135	68	18	86	501	587	575	86	489	....	....	....	....			
"	"	133-134	61	20	81	425	506	475	81	394	....	....	....	....			
"	"	136	47	9	56	284	341	325	57	268	....	....	1	....			
"	"	137	55	9	64	301	365	350	64	286	....	....	....	....			
"	"	138	40	11	51	354	407	375	53	322	1	1	....	....			
"	"	139	77	7	84	274	360	350	86	264	2	....	....	....			
"	"	140	31	19	50	369	419	400	50	350	....	....	....	....			
"	"	148-149	94	8	102	502	604	575	102	473	....	....	....	....			
"	"	150-151	47	24	71	405	476	450	71	379	1	....	....	....			
"	"	152-153	49	20	69	379	448	425	69	356	....	....	....	....			
"	"	154-155	79	19	98	454	552	525	98	427	....	....	....	....			
"	"	156-157	59	24	83	451	535	500	84	416	1	....	....	....			
"	"	158	20	7	27	279	306	300	27	270	....	....	....	....			
"	"	159-160	50	9	59	458	518	500	60	440	1	....	....	....			
"	"	161-162	80	22	102	347	450	450	103	347	1	....	....	....			
"	"	163-164	70	19	89	378	469	450	91	359	2	....	....	....			
"	"	165	40	15	56	238	294	300	56	244	....	1	....	....			
"	"	166-167	54	9	63	270	334	300	64	236	1	....	....	....			
"	"	168-169	47	15	62	497	560	550	63	487	....	1	....	....			
"	"	170-171	67	17	84	339	423	400	84	316	....	....	....	....			
"	"	172-173	66	11	77	457	534	500	77	423	....	....	....	....			
"	"	174-175	44	24	68	497	565	525	68	457	....	....	....	....			
"	"	176	19	7	26	201	227	250	26	224	....	....	....	....			
"	"	177-178	45	10	55	340	395	375	55	320	....	....	....	....			
"	"	179	33	10	43	158	201	200	43	157	....	....	....	....			
"	"	180-181	53	19	72	488	560	550	72	478	....	....	....	....			
"	"	182-183	43	13	56	344	400	400	56	344	....	....	....	....			
"	"	207-208	38	18	56	421	477	450	56	394	....	....	....	....			
"	"	209	35	7	42	153	195	200	42	158	....	....	....	....			
"	"	210-211	35	9	44	441	485	475	44	431	....	....	....	....			
"	"	212	19	3	22	172	194	200	22	178	....	....	....	....			
"	"	213	47	4	51	154	205	200	51	149	....	....	....	....			
"	"	214	17	10	27	116	144	150	28	122	1	....	....	....			
"	"	215-216	66	1	67	425	492	475	67	408	....	....	....	....			
"	"	217	27	..	27	196	223	225	27	198	....	....	....	....			
"	"	218	45	..	45	140	185	200	45	155	....	....	....	....			
"	"	219-220	47	..	47	353	400	375	47	328	....	....	....	....			
"	"	221-223	60	21	81	436	517	500	81	419	....	....	....	....			
"	"	222-224	54	18	72	499	571	550	72	478	....	....	....	....			

Statement by Returning Officer respecting Votes Polled and Ballot Papers used at the Polling Places of the Electoral District of Toronto, Northwest, Seat "A," at the By-Election held on the Seventh Day of July, 1924—*Continued.*

Electoral District.	Numbers of Polling Places.	Names of Candidates and Number of Votes Polled for each.		Voters at each Polling Place.			Ballot Papers sent out and how disposed of in each Polling Place.						
				Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of names on the Polling Lists	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
		Edwards	Young										
Toronto, N.W.—Seat "A"—*Con.*	Ward 6.....No. 225-228	34	21	55	397	452	450	55	395	....	....	....	....
	" ..... " 226-227	44	16	60	236	297	300	61	239	....	1	....	....
	" ..... " 229	45	6	51	261	312	300	51	249	....	....	....	....
	" ..... " 230	26	7	33	160	193	200	33	167	....	....	....	....
	" ..... " 232-233	22	6	28	413	441	425	28	397	....	....	....	....
	" ..... " 234	21	6	27	143	170	175	27	148	....	....	....	....
	" ..... " 235-236	56	19	75	460	535	500	75	425	....	....	....	....
	" ..... " 237-238	37	13	50	344	394	375	50	325	....	....	....	....
	" ..... " 239-244	43	12	55	351	407	400	56	344	1	....	....	....
	" ..... " 240	20	20	40	180	220	225	40	185	....	....	....	....
	" ..... " 242-247	39	16	55	352	407	400	55	345	....	....	....	....
	" ..... " 243	8	16	24	204	228	225	24	201	....	....	....	....
	" ..... " 241-245	27	22	49	378	427	450	49	401	....	....	....	....
	" ..... " 246	21	17	38	187	225	225	38	187	....	....	....	....
	" ..... " 248	16	1	17	130	148	150	18	132	....	1	....	....
	" ..... " 249	18	5	23	205	228	225	23	202	....	....	....	....
	Totals.....	7,661	1,662	9,323	50,800	60,178	57,950	9,378	48,572	41	13	1	....
	Majority for Edwards.....	5,999											

W. E. DUNLOP,
Returning Officer for the Electoral District of Toronto, Northwest, Seat "A."

Statement by Returning Officer respecting Votes Polled and Ballot Papers used at the Polling Places of the Electoral District of South Waterloo, at the By-Election held on the Twenty-third Day of June, 1924.

Electoral District.	Numbers of Polling Places.	Names of Candidates and Number of Votes Polled for each.		Voters at each Polling Place.			Ballot Papers sent out and how disposed of in each Polling Place.						
				Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of names on the Polling Lists	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
		Homuth	Shaw										
Waterloo, South..	City of Galt.....No. 1 A to J	85	63	148	204	352	375	148	226	....	1	....	....
	" ..... " 1 K to Z	103	115	218	254	472	475	218	257	....	....	....	....
	" ..... " 2 A to J	64	57	121	157	278	300	121	179	1	....	....	....
	" ..... " 2 K to Z	85	79	164	170	334	625	164	461	....	....	....	....
	" ..... " 3 A to J	41	63	104	157	261	275	104	171	....	....	....	....
	" ..... " 3 K to Z	55	48	103	128	231	250	103	147	....	....	....	....
	" ..... " 4 A to Z	102	97	199	264	463	475	199	274	2	....	....	....
	" ..... " 5 A to J	30	39	69	211	280	300	69	231	....	....	....	....
	" ..... " 5 K to Z	50	40	90	226	316	325	90	234	1	....	....	....
	" ..... " 6 A to J	76	52	128	131	259	275	128	147	....	....	....	....
	" ..... " 6 K to Z	59	73	132	169	301	325	132	191	1	....	1	....
	" ..... " 7 A to J	55	88	143	143	286	300	143	157	....	....	....	....
	" ..... " 7 K to Z	73	109	182	160	342	350	182	168	....	....	1	....
	" ..... " 8 A to Z	127	94	221	244	465	475	221	251	....	3	....	....
	" ..... " 9 A to Z	88	141	229	165	394	400	229	171	....	....	....	....
	" ..... " 10 A to J	67	51	118	235	353	375	118	257	....	....	....	....
	" ..... " 10 K to Z	61	62	123	252	375	400	123	276	....	....	1	....
	" ..... " 11 A to J	116	84	200	141	341	350	200	150	2	....	....	....
	" ..... " 11 K to Z	131	72	203	196	399	425	203	222	2	....	....	....
	" ..... " 12 A to J	80	91	171	139	310	325	171	153	....	....	1	....
	" ..... " 12 K to Z	95	128	223	218	441	450	223	227	....	....	....	....
	" ..... " 13 A to J	79	99	178	221	399	400	178	222	....	....	....	....
	" ..... " 13 K to Z	94	111	205	262	467	475	205	269	1	....	....	....

Statement by Returning Officer respecting Votes Polled and Ballot Papers used at the Polling Places of the Electoral District of South Waterloo, at the By-Election held on the Twenty-third Day of June, 1924—*Continued.*

Electoral District.	Numbers of Polling Places.	Names of Candidates and Number of Votes Polled for each.		Voters at each Polling Place.			Ballot Papers sent out and how disposed of in each Polling Place.						
		Homuth	Shaw	Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of names on the Polling Lists	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places
Waterloo, South —*Continued* ...	City of Galt.....No. 14 A to J	82	71	153	113	266	275	153	120	2	....	....	....
	" ..... " 14 K to Z	60	70	130	149	279	300	130	170	....	....	....	....
	" ..... " 15 A to J	130	54	184	103	287	300	184	115	1	....	....	....
	" ..... " 15 K to Z	142	49	191	190	381	400	191	208	1	....	....	....
	" ..... " 16 A to J	126	51	177	145	322	325	177	146	....	....	2	....
	" ..... " 16 K to Z	144	52	196	127	323	325	196	128	1	....	....	....
	Town of Hespeler.... " 1 A to Z	204	116	320	103	423	450	320	128	2	....	....	....
	" " .... " 2 A to Z	183	130	313	125	438	450	313	136	1	....	....	....
	" " .... " 3 A to Z	159	100	259	96	355	375	259	112	3	1	....	....
	" " .... " 4 A to Z	165	162	327	105	432	450	327	119	4	....	....	....
	" " .... " 5 A to Z	51	83	134	59	193	200	134	60	6	....	....	....
	Town of Preston.... " 1 A to J	128	66	194	85	279	300	194	101	5	....	....	....
	" " .... " 1 K to Z	173	93	266	88	354	375	266	108	1	....	....	....
	" " .... " 2 A to J	97	51	148	49	197	200	148	52	....	....	....	....
	" " .... " 2 K to Z	170	76	246	63	309	325	246	77	2	....	....	....
	" " .... " 3 A to J	128	77	205	68	273	300	205	91	3	....	1	....
	" " .... " 3 K to Z	148	98	246	74	320	325	246	78	1	....	....	....
	" " .... " 4 A to J	106	88	194	77	271	275	194	80	1	....	....	....
	" " .... " 4 K to Z	142	71	213	78	291	300	213	83	4	....	....	....
	" " .... " 5 A to J	186	93	279	75	354	375	279	94	1	1	....	....
	" " .... " 5 K to Z	189	110	299	82	381	400	299	101	4	....	....	....
	" " .... " 6 A to Z	117	112	229	98	327	350	229	118	3	....	....	....
	Village of New Hamburg..... " 1 A to J	94	73	167	270	625	300	167	131	1	1	....	....
	" " " 1 K to Z	100	88	188			350	188	158	4	....	....	....
	" " " 2 A to Z	51	73	124	115	239	250	124	126	....	....	....	....

Village of Ayr.....	No.	1	A to Z	102	97	199	334	533	550	199	350	1	....	....	....
Township of Wilmot.	No.	1	A to Z	80	47	127	247	374	400	127	270	3	....	....	....
" " .	"	2	A to Z	92	36	128	277	405	425	128	296	1	....	....	....
" " .	"	3	A to Z	81	19	100	226	326	350	100	248	1	....	1	....
" " .	"	4	A to Z	76	70	146	418	564	575	146	428	1	....	....	....
" " .	"	5	A to Z	143	21	164	186	350	375	164	209	2	....	....	....
" " .	"	6	A to Z	121	32	153	136	289	300	153	147	....	....	....	....
Township of Waterloo	No.	1	A to Z	151	21	172	205	377	400	172	228	....	....	....	....
" "	"	2	A to Z	109	95	204	125	329	350	204	145	1	....	....	....
" "	"	3	A to Z	165	37	202	130	332	350	202	146	2	1	....	....
" "	"	4	A to J	133	47	180	165	510	275	180	94	1	....	....	....
" "	"	4	K to Z	119	46	165			275	165	109	1	....	....	....
" "	"	5	A to Z	152	25	177	94	271	300	177	118	2	3	....	....
" "	"	6	A to Z	134	33	167	108	275	300	167	132	1	....	....	....
Township of N. Dumfries.....	No.	1	A to Z	74	31	105	54	159	175	105	69	....	....	....	....
" "	"	2	A to Z	207	53	260	157	417	425	260	164	1	....	....	....
" "	"	3	A to Z	187	46	233	148	381	400	233	167	....	....	....	....
" "	"	4	A to Z	77	7	84	138	222	200	84	115	1	....	....	....
" "	"	5	A to Z	134	24	158	133	291	300	158	142	....	....	....	....
Totals.....				7,425	4,770	12,195	10,466	22,661	23,700	12,195	11,505	80	11	8	....
Majority for Homuth.....				2,655											

JOHN G. ALISON,
Returning Officer for the Electoral District of South Waterloo.

THUNDER BAY SYSTEM—CAMERON FALLS POWER DEVELOPMENT—NIPIGON RIVER

Supplies power to the Thunder Bay district. View taken from upstream side showing forebay on right and tailrace on left. The power house is completed for four units and units No. 5 and No. 6 are being installed

Seventeenth Annual Report

OF THE

HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1924

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO
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1925

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

HON. SIR ADAM BECK, KT., LL.D., M.L.A. ..... *Chairman*

HON. J. R. COOKE, M.L.A. ..... *Commissioner*

W. W. POPE, ESQ. ..... *Secretary*

F. A. GABY, B.A.SC., D.SC. ..... *Chief Engineer*

To His Honour The Honourable Harry Cockshutt,

Lieutenant-Governor of Ontario

May It Please Your Honour:

The undersigned has the honour to present to your Honour the Seventeenth Annual Report of the Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1924.

This Report covers all of the Commission's activities and also embodies the financial statements of the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the people of the Province. The financial statements, the statistical data, and the general information contained herein have been so arranged as to present clearly and concisely every important feature of the Commission's operations.

The Report deals with all phases of the operations of the Commission for the past year with respect to nine systems to which are connected 386 municipalities, including 131 townships and rural districts, and 93 industrial companies. The Report also shows the cumulative financial results for the various periods during which operation has been maintained.

Industrial conditions throughout the Province during the year have improved but are still below normal, with the result that there is not yet a rapidly increasing demand for power for industrial uses. Notwithstanding this general industrial condition, there has been a considerable growth in the demand for power on nearly all systems, and on several systems the Commission has reached the limit of the capacity of the existing generating plants. It is, therefore, necessary for the Commission, on practically all systems, to make arrangements to secure additional power developments to meet the ever-increasing demand.

During the past year, special efforts have again been made by the Provincial Government, by the municipalities of the Province and by the Hydro-Electric Power Commission to secure permission to commence construction of the power development works in the international portion of the St. Lawrence river. Delay in securing the permission sought must result in accentuating the power shortage that is rapidly materializing.

A gratifying feature of the Commission's operations during the past year is the remarkable increase in the demand for electrical energy in the Thunder Bay system. Not only is this system in excellent financial condition, but the contracts for electrical energy are such that an aggregate of 70,000 horsepower is under agreement, while additional applications have been received from customers such as will bring the early possible future load to about 90,000 horsepower. This great demand has compelled the Commission not only to increase existing plants to their maximum capacity, but to determine also the means by which a large increase in power-producing installation may be provided in order to serve the rapidly growing needs of this important section of the Province.

The following tabulation shows the growth in load in the various systems during the year:

DISTRIBUTION OF POWER TO SYSTEMS

20-Minute Peak Horsepower

System	October 1923	October 1924	December 1924*
Niagara system and export	592,775	581,770	662,311
Georgian Bay system	13,695	15,449	15,529
Muskoka system	1,415	1,560	1,582
St. Lawrence system	5,877	4,998	5,112
Rideau system	3,137	2,694	2,607
Thunder Bay system	16,958	34,200	37,500
Ottawa system	12,528	13,206	14,708
Central Ontario and Trent system	37,332	34,892	39,222
Nipissing system	1,769	2,429	2,218
Total	685,486	691,198	780,789

* The December loads are also shown for 1924, as many varying factors make it difficult to show from the October conditions of 1924 the real growth of the systems' loads.

It will be observed that the financial statements embodied in this Report are presented in two main divisions, namely, a division—Section IX—which deals with the operations of the Commission in the generation, transformation and transmission of electrical energy *to the co-operating municipalities*, and a division—Section X—which deals with the various operations of the municipalities in the localized distribution of electrical energy *to consumers*.

The cumulative results to date of the operation of the several systems of the Commission as set forth in this Report demonstrate a remarkably healthy financial condition.

The total investment of the Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is $190,027,909.66, and the investment of the municipalities in distributing systems and other assets is $72,753,596.31, making, in power and hydro-electric railway undertakings, a total investment of $262,781,505.97.

The following statement shows the capital invested in the respective systems and municipal undertakings:

Niagara system	$148,469,979.78
Georgian Bay system	4,383,531.42
Muskoka system	387,314.97
St. Lawrence system	1,047,855.07
Rideau system	1,081,913.40
Thunder Bay system	9,336,535.13
Ottawa system	30,265.98
Central Ontario and Trent system	13,463,780.86
Nipissing system	1,012,252.20
Service buildings, construction plant, stores, etc.	2,686,666.16
Hydro-electric railways	8,127,814.69
	$190,027,909.66
Municipalities' distributing systems and other assets—all systems	72,753,596.31
	$262,781,505.97

It is gratifying to the Commission to be able once again to report that the revenue obtained from the consumers has been more than sufficient to meet the full cost of generating and transmitting the electrical energy as well as to provide for all operating expenses and the fixed charges of the municipal utility equipments.

The Commission collected from the municipal utilities and other customers, for power sold, a total sum of $16,897,866.73. This sum was appropriated to meet all the necessary fixed charges and to provide for the expenses of operation and administration. After meeting all charges there was left a net surplus of $725,708.55.

The following statement summarizes the Commission's collections from municipal hydro-electric utilities and other power customers for the year and shows how the collections have been appropriated:

Revenue from municipalities and other power customers		$16,897,866.73
Appropriated as follows:		
Operation, maintenance, administration, interest and other current expenses	$13,078,003.14	
Reserved for sinking fund, renewal of plant and equipment, and contingencies	3,094,155.04	
		16,172,158.18
Net surplus after providing for all operating expenses and necessary fixed charges		$725,708.55

The following is a summary of the year's operation of the municipalities which operate under cost contracts with the Commission:

Total revenue collected by the municipalities		$18,798,723.43
Cost of power	$9,669,789.40	
Operation, maintenance and administration	4,088,584.18	
Debenture charges and interest	2,902,790.13	
Depreciation	973,649.62	
Total		17,634,813.33
Surplus for the year		$1,163,910.10

The above covers only the municipalities operating under cost contracts with the Commission.

The total reserves of the Commission and the municipalities for sinking fund, renewals, contingency and insurance purposes amount to $39,040,538.32, made up as follows:

Niagara system	$11,019,998.43
Georgian Bay system	787,198.72
Muskoka system	42,282.12
St. Lawrence system	206,470.96
Rideau system	83,946.47
Thunder Bay system	52,560.09
Ottawa system	3,320.67
Central Ontario and Trent system	1,616,729.25
Nipissing system	82,047.07
Service buildings, etc.	878,007.37
Total reserves on Commission's property	$14,772,561.15
Total reserves of municipalities	24,267,977.17
Total Commission and municipal reserves	$39,040,538.32

The consolidated balance sheet of the municipal hydro-electric utilities, on page 309, shows a total cash balance of $1,748,912.34 and bonds and other investments of $1,329,622.58, being an increase of $648,970.39 over the corresponding assets for 1923. The total surplus in the municipal books now amounts to $16,170,142.49 and this is in addition to the depreciation reserve of $8,097,834.68.

The following is a brief summary of the principal operations which are presented in greater detail in the body of this Report:

Niagara System

The Niagara system embraces all the territory lying between Niagara Falls, Hamilton and Toronto on the east, and Windsor, Sarnia and Goderich on the west, as served with electrical energy generated at Niagara Falls.

In this system, the Commission has a total capital invested of $148,469,979.78 and accumulated reserves of $11,019,998.43.

The actual cost of power was $175,710.32 less than the amount of the estimate upon which the interim rates were based. The municipalities show a net surplus from the year's operation of $774,466.04 after providing depreciation to the extent of $825,845.55. Only one municipality shows an actual deficit during the year, of $84.25, and this out of a total revenue of $15,964,746.80. There has been a gradual increase in the number of customers and in the loads supplied to the municipalities.

The sixth unit of the Queenston-Chippawa plant was put into operation early in the year, and all six units are now operating at full capacity. The seventh generator is being installed and will be put into operation early in November, 1925. Contracts for unit No. 8 have been placed and the work of installing this unit is well under way. The Queenston generating plant, the Electrical Development Company generating plant and the Ontario Power Company generating plant, all of which heretofore have been operated as separate units, were this year for the first time combined, both as regards investments and operation. The average cost of generated power at which the municipalities were billed during the year included all operating charges and all fixed charges on the three plants, including, for the first time, full sinking fund and depreciation on the Queenston-Chippawa plant.

Georgian Bay System

At the beginning of this year the Severn, Eugenia and Wasdells systems were combined and for the first time appear in this Report as a unit known as the Georgian Bay system, the year 1924 constituting the year of initial operation of this amalgamation. These three systems since 1916 have been interconnected by means of transmission lines and have been interchanging power, but experience has proven the necessity of combining these various systems into a single system in order to secure greater economy in administration and, at the same time, to eliminate the complications involved under separate operation. The results of the first year have demonstrated the advantages of such an arrangement.

As now constituted, the Georgian Bay system consists of fifty-two urban municipalities and thirteen rural power districts, including the supplying of

energy to four companies. The combined system serves that portion of the Province of Ontario which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara system. It includes also the district surrounding lake Simcoe. The generating output of the three hydro-electric plants at Eugenia Falls, Big Chute and Wasdells Falls, together with the capacity of the frequency changer station at Mount Forest through which approximately 1,000 horsepower is obtained from the Niagara system, exceeds 15,000 horsepower and the average load sold during the year was 15,690 horsepower. These figures clearly indicate the fact that the various generating stations of this system are fully loaded. During the year, arrangements were completed for additional generating capacity obtainable at the South Falls development of the Muskoka system. At the beginning of the next fiscal year, the Muskoka system will be included in the Georgian Bay system. The Commission has a total capital investment in this system of $4,383,531.42, and accumulated reserves for renewals, sinking fund and contingencies aggregate $787,198.72.

The actual cost of power during the year was $74,211.78 less than the estimates on which the interim rates were based, and the municipalities, after providing for depreciation of $37,342.35, operated with a net surplus of $109,442.56. Five municipalities operated with a small loss, aggregating $1,205.50.

Muskoka System

The Muskoka system is supplied from a hydro-electric power development at South Falls on the Muskoka river and serves the municipalities of Huntsville and Gravenhurst. The Commission has in this system a total capital investment of $387,314.97, and accumulated reserves aggregate $42,282.12.

The actual cost of power during the year was $294.32 less than the estimates on which the interim rates were based and the municipalities, after providing full depreciation, operated with a net surplus of $5,116.94.

As the installed equipment of this development was approximately 1,500 horsepower and as the potentiality of the Muskoka river at this situation—including the power sites at South Falls and at Hanna Chutes about a mile farther upstream—was capable of being developed to approximately 7,000 horsepower, arrangements were completed for increasing the development on this river. The plans involved the removal of one of the small units and the installation of two new units of 2,200 horsepower each at the South Falls site—known as generating station No. 1—and one unit at Hanna Chutes of 1,550 horsepower—known as generating station No. 2. Construction work covering these improvements has been progressing throughout the year and it is expected that two of the new units will be in operation and under load during the early part of next year; the Hanna Chutes unit will probably be ready for operation about the first of 1926.

St. Lawrence System

The St. Lawrence system serves the district immediately to the north of the St. Lawrence river between Brockville and Cornwall; the supply of power for the system being purchased from the Cedar Rapids Transmission Company, delivery being made from a point near Cornwall. Service is given to ten municipalities, six rural power districts and three companies.

The Commission in this system has a total capital investment of $1,047,855.07 and accumulated reserves for renewals, sinking funds and contingencies aggregate $206,470.96. In the interim bills the Commission collected $15,040.93 in excess of the cost of operating the system. The municipalities, after providing for full depreciation, ended the year with a net surplus of $40,825.70. Three municipalities had a loss of $1,587.31 in the year's operations.

A company taking about 1,500 horsepower ceased operations and was disconnected from the system in March, 1924. Due to the loss of this load, the demand on the system was reduced, and on this account the average power sold during the year was somewhat less than during the preceding year.

Rideau System

The Rideau system serves the district in the vicinity of Smiths Falls, Perth and Carleton Place. Power is available from two generating plants, one at Carleton Place and the other installed by the Commission at High Falls. Both are situated on the Mississippi river. The Commission also purchases power from the Rideau Power Company of Merrickville. The Carleton Place plant was not in operation during the past year because the capacity of this plant was not required in order to provide the power requirements of the municipalities. The system supplied five municipalities situated between the Ottawa and St. Lawrence rivers, west of Ottawa.

The water supply for this system, which is augmented by storage development on the Mississippi river, was adequate and thus the Commission avoided the necessity of operating any steam equipment to supplement the hydro-electric power supply available. The amount of power sold on the system was not materially increased over that sold in the previous year. The Commission, through the interim bills, collected from four municipalities $8,228.15 in excess of the amount necessary. In the case of the fifth municipality, an additional charge was made of $1,749.40. All of the municipalities finished the year with an aggregate net surplus of $17,701.16.

During this fiscal year this system commenced to pay sinking fund—one municipality having received a supply of power from the Commission for a period of five years.

Thunder Bay System

The Thunder Bay system, which serves the district at the head of the Great Lakes, including the twin cities of Port Arthur and Fort William, with power from the power development at Cameron Falls on the Nipigon river, has had a most successful year. The records of this system for the past fiscal year show a surplus of $52,560.09 after providing for all operating, maintenance and administrative charges, as well as providing for the full yearly interest on the entire operating capital. This surplus is applicable for contingency and renewal reserves. The total operating capital of this system for the current year is $9,336,535.13.

The load in the city of Port Arthur—the original customer of this system—which, when the system was placed in operation four years ago, was less than 7,000 horsepower, reached a peak during the year of over 21,000 horsepower. The total average load sold on the entire system for the year was 27,254 horsepower and it is estimated that during the next fiscal year this will reach 40,000 horsepower.

During the year service was given for the first time to the Great Lakes Paper Company in Fort William. This company is now taking approximately 12,000 horsepower. During the year service was also resumed to the Nipigon Pulp Mill, which is now taking approximately 3,000 horsepower. Arrangements were also made for giving service to Nipigon village through the substation at the Nipigon Pulp Mill.

To provide for these increased demands it has been necessary for the Commission to install additional units, and consequently units No. 3 and No. 4 have been installed and placed in operation during the year. Provision has been made for installing units No. 5 and No. 6, which should be completed and under load before the close of the next fiscal year. Arrangements have also been made for constructing a dam at Virgin Falls for the purpose of creating storage on lake Nipigon.

Central Ontario and Trent System

The Central Ontario and Trent system serves the district bordering the north shore of lake Ontario lying between the territory on the west served by the Niagara and Georgian Bay systems and that on the east served by the St. Lawrence and Rideau systems. The nucleus of this system was the group of properties formerly controlled by the Electric Power Company, Limited, and operated by it through the agency of twenty-two subsidiary companies. These properties were all purchased by the province of Ontario on March 1, 1916, and have been operated by the Commission as trustee for the Province since June 1, 1916. Since that date the system has been greatly enlarged in order to meet the constantly growing needs of the district.

Twelve municipalities, ten of which have been connected to the system since the date of purchase, operate their own distribution systems under contracts with the Commission. These municipalities are grouped in what is termed the Trent system. This system also includes certain rural power districts.

The power supply for the Central Ontario and Trent system is obtained from a number of power developments situated on the Trent and Otonabee rivers. The power developments are made in conjunction with dams required for navigation purposes. Two new developments are now under construction at Dams No. 8 and No. 9. The development at Dam No. 8 is practically completed and since September has carried load. Satisfactory progress has been made on the generating station at Dam No. 9 and, it is expected, this will be ready early in 1925. Both of these generating stations are of the automatic type and will be controlled from the power house at Ranney Falls—Dam No. 10.

Investigations on the possibilities of the Crow river storage basin for increasing the power supply on the Trent river were continued and a report is in preparation covering the power possibilities and economic features of storage in this basin.

The quiet commercial conditions reported in 1923 continued, and there were no outstanding increases in the power load supplied.

For the purpose of financial statements the Nipissing system, referred to below, is included with the Central Ontario and Trent system. The financial results of the operations of the year are very satisfactory. After meeting all operating and maintenance costs, all interest, all sinking fund provision on

that portion of the investment for which sinking fund provision is required, provision for renewals reserve of $138,527.44 and provision for contigenncies reserve of $40,055.60, a net surplus of $132,945.48 was available. It is noteworthy that the total reserves which have been set up out of earnings for the benefit of these systems now amount to $1,646,947.72.

The municipalities constituting the Trent system are considered as customers of, and are supplied with electrical energy from, the Central Ontario and Trent system. The result of their combined operation for the year shows a net surplus of $85,029.07 after providing for $24,991.40 depreciation. One municipality shows a loss of $756.44.

Nipissing System

The Nipissing system comprises the town of North Bay and certain small municipalities south of lake Nipissing. It was purchased by the Province with the Central Ontario system in 1916 and has since been operated by the Commission. It is supplied with power from two hydro-electric developments on the South river at Nipissing and Bingham Chute. The new development at Bingham Chute was completed and placed in operation for the first time during the year, thus making available for this system an additional 1,200 horsepower of generating plant.

* * *

In conclusion, it may be emphasized that the past year has been the most successful in the Commission's history, and apart from the menace that exists on account of an approaching power shortage, the future of the Commission never appeared more promising. Attention is directed to a remarkable statement in the introduction to Section X, dealing with the Municipal Accounts, in which, at page 303, will be found a list showing that thirty-nine municipalities have now quick assets such as cash, bonds, accounts receivable and inventories which exceed in value the total liabilities incurred by these municipalities in connection with their municipal electric utilities. This is a very striking and most encouraging feature of the Commission's success. Twenty-four other municipalities have so nearly reached this status that it is probable that most of these also will be able to be entirely out of debt by the close of next year.

Respectfully submitted,

Adam Beck

Chairman

TORONTO, ONTARIO, March 31st, 1925.

HON. SIR ADAM BECK, KT., LL.D., M.L.A.,
Chairman, Hydro-Electric Power Commission of Ontario,
Toronto, Ontario.

SIR,—I have the honour to transmit herewith the Seventeenth Annual Report of the Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1924.

I have the honour to be,

Sir,

Your obedient servant,

W. W. POPE
Secretary

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MAP

TRANSMISSION LINES AND STATIONS OF THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO - At end of volume

SEVENTEENTH ANNUAL REPORT

OF THE

Hydro-Electric Power Commission of Ontario

SECTION I

LEGAL PROCEEDINGS

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, in 1924 passed four special Acts relating to the work of the Hydro-Electric Power Commission of Ontario. These Acts are reproduced in full as Appendix I to this report. The short titles to the said Acts are as follows:

The Power Commission Act, 1924, Chapter 23.

The Power Commission and Companies Transfer Act, 1924, Chapter 24.

The Rural Hydro-Electric Distribution Act, 1924, Chapter 25.

The Hydro-Electric Railway Act, 1924, Chapter 26.

The agreements between the Hydro-Electric Power Commission of Ontario and the Municipalities and Corporations mentioned in the list hereunder given were approved by Order-in-Council dated the 26th day of June, 1924.

Towns	
Kingsville	May 25, 1924
Meaford	Feb. 5, 1923
Villages	
Blyth	Dec. 26, 1923
Brussels	Dec. 17, 1923
Cayuga	Mar. 10, 1924
Clifford	Dec. 3, 1923
Courtright	Sept. 5, 1923
Jarvis	Oct. 10, 1923
Paisley	Mar. 3, 1923
Stouffville	May 7, 1923
Sutton	May 28, 1923
Victoria Harbor	Aug. 24, 1923
Wheatley	Jan. 2, 1924
Police Villages	
Warkworth	Apr. 17, 1923
Townships	
Barton	Nov. 20, 1922
Chinguacousy	Aug. 13, 1923
Darlington	Oct. 5, 1923
Delaware	Feb. 5, 1923
Eldon	Aug. 6, 1923
Esquesing	Feb. 14, 1924
Flos	Mar. 10, 1923
Georgia	Apr. 29, 1924
Glanford	Nov. 17, 1923
Kenyon	Oct. 4, 1923
King	Sept. 8, 1923
Malahide	Apr. 2, 1923
Mersea	Dec. 17, 1923
Middleton	Apr. 16, 1923
Mosa	Apr. 21, 1923
Murray	Oct. 26, 1923
Niagara	Aug. 30, 1923
North Gwillimbury	May 7, 1924

TOWNSHIPS

North York	Sept. 18, 1923	Sunnidale	Mar. 1, 1923
North York	Oct. 8, 1923	Tay	Dec. 15, 1923
Sarnia	Apr. 30, 1923	Tilbury	Mar. 5, 1923
Sombra	July 7, 1923	Trafalgar	Oct. 1, 1923
South Dumfries	July 16, 1922	Wellesley	Sept. 4, 1923
Southwold	Mar. 5, 1923	Williamsburg	Dec. 1, 1923

CORPORATIONS

American Cyanamid Company	Mar. 22, 1923
American Cyanamid Company	June 1, 1923
Canada Wire & Cable Co., Ltd	Sept. 1, 1923
The Canadian Salt Co., Ltd	Jan. 1, 1923
The Dominion Petroleum Co., Ltd	Sept. 1, 1923
The Guaranty Investment Corporation, Ltd	Dec. 4, 1923
The Hamilton Cataract Power, Light & Traction Co., Ltd., and Corporation of the Township of Trafalgar	Aug. 7, 1923
The H. O. Cereal Company, Inc	Jan. 8, 1923
The Milton Pressed Brick Co., Ltd	May 28, 1923
Mohawk Sand & Gravel Co., Ltd	May 7, 1922
Walter Warren Thomson	Feb. 1, 1923

Applications for highway and other crossings over the various lines of electric railways operated by the Commission and the construction and maintenance of power line crossings over other railways occasioned numerous appearances before the Ontario Railway and Municipal Board. In a number of grade separations and other proceedings before the Board of Railway Commissioners for Canada the Commission was a party or materially interested.

For the railways operated by the Commission numerous claims were collected. A number of agreements were prepared and other matters dealt with in relation to different phases of operation. Contracts for equipment were drawn.

A large number of contracts were drawn for the purchase or construction of plant and machinery required in the power developments of the Commission. Some of these, notably those connected with Queenston, involved considerable sums of money and required corresponding care.

Standard forms of agreement for several purposes were drafted and settled and are now in regular use.

Numerous power contracts were considered from time to time and revised or renewed as necessary.

The distribution of power to the large number of municipalities served by the Commission raised from time to time many different questions. In each case the interests of all parties were duly considered and an equitable solution worked out.

Several agreements were completed covering re-arrangement of rights and properties between local authorities and between the Commission and different municipalities. This was done in order to meet the wishes of the municipalities and ensure more economical service.

Under the Power Commission and Companies Transfer Act, 1924, a great deal of work was done in preparing for and completing the transfers therein authorized. This will make possible the amalgamation of the various power developments in the Niagara system and will simplify operating conditions where previously the different companies had to be kept distinct. It will enable the Commission to consummate the unification in view when it negotiated the purchase of the Toronto Power Company, popularly referred to as the "Clean Up."

In addition to the special legislation referred to above, amendments were secured to the Public Utilities Act and the Local Improvement Act. These were obtained at the request of a number of municipalities to meet exigencies in their operations. With the more widespread use of electricity there has come a steady demand for street lighting in the suburban sections of rural municipalities. This made necessary the extension of certain benefits under the Local Improvement Act to townships.

RIGHT-OF-WAY AND LANDS

Land Survey and Title Records

Considerable progress has been made during the past year in transferring and recording deeds to the title record book; over two hundred were recorded, including all current deeds. In addition one hundred and thirty plans and descriptions were prepared for right-of-way on transmission lines and power development.

In addition to the above about one thousand records of deeds and various easements were indexed.

Right-of-Way

During the year development work has been carried on at Dam No. 8 and Dam No. 9 on the Trent river. This work necessitated prolonged negotiations with the Department of Railways and Canals at Ottawa as to flooding and damage claims and rights on the Trent river as well as the purchase of several parcels of land from private owners.

Negotiations were also carried to a successful issue with the Council of the city of Toronto and with the Toronto Harbour Board for the closing of the old Lake Shore road east of the Humber river, and Cliff road and the conveyance of these roads to the Commission to provide a right-of-way for a new tower line to Strachan Avenue station and the removal of the existing tower line on the lake front to this new right-of-way.

The right-of-way for a new high-tension tower line from Cameron Falls to Port Arthur was also secured during the past season. Part of this right-of-way was purchased and in other cases easements for tower rights were secured.

The new line from Sarnia to St. Thomas has been laid out and a considerable portion of the right-of-way as well as a new station-site at Sarnia has been arranged for. As this site and a part of the right-of-way were formerly part of the Sarnia Indian Reserve, the acquisition of same was carried on through the Department of Indian Affairs at Ottawa.

The crossing of navigable waters with cables or overhead wires was arranged with the Departments of Railways and Canals and Public Works at Ottawa in the cases of Matchedash bay, Rideau river, Rideau canal, Grand river and two over the Thames river. Licenses of Occupation from the Provincial Crown Lands Department had also to be secured in these cases.

The sale of the Essex County system to the various municipalities served by that system rendered it necessary to prepare agreements, bills of sale, etc., and close negotiations with the municipalities of Harrow, Essex, Sandwich, Kingsville and Leamington.

The collection of a large portion of the Commission's rents was taken over by this department during the year. Some forty houses belonging to the Commission in the city of Toronto and elsewhere have been repaired and proper leases arranged. Leases have also been prepared for all the Commission's other properties.

The moving of poles on highways undergoing repairs by the government and other commissions and various municipalities has involved the carrying on of a great deal of correspondence.

Station sites have been purchased at the following places: Decewsville, Dam No. 8, Trenton, Glendale, Fletcher, Port Arthur, Port Colborne, Walton and Windsor.

Properties no longer required by the Commission at Chippawa, Kitchener, St. Ann, Stamford and Port Arthur have been sold, as well as some six parcels formerly owned by the Toronto and York Radial Railway system.

Right-of-way for low-tension lines, including pole, anchor and tree-trimming rights has been arranged for on the following lines:

Dam No. 9 to Meyersburg
Warkworth substation to Warkworth
Meyersburg Junction to Sidney
Mount Forest to Harriston
Junction pole to Meaford
Waubaushene to South Falls
Perth to Smiths Falls
Leamington to Wheatley
Ruthven to Leamington
Preston to Kitchener
Essex to Walkerville
Milton to Guelph Junction
Lythmore to Decewsville
Decewsville to Cayuga
Hagersville to Jarvis
Junction pole to Lynden
Junction to Broughdale
Harriston to Clifford feeder line
Walton to Brussels
Walton to Blyth feeder line
Seaforth to Walton
Aylmer to Springfield
Puce to Essex
Telephone line Dams Nos. 8, 9 and 10
Dams Nos. 8, 9 and 10 delivering power to lines R and G.

Work on the following rural lines has been carried on during the year and in the majority of cases has been completed: Amherstburg, Barton, Beamsville, Blenheim, Bolton, Bowmanville, Brant, Chatham, Delaware, Dorchester, Dundas, Georgetown, Homer, Keswick, Kingston, Lansing, London, Lynden, Mariposa, Nepean, Nottawasaga, Preston, Ridgetown, St. Jacob, St. Thomas, Saltfleet, Sandwich, Scarboro, Stayner, Tavistock, Tillsonburg, Trenton, Wallaceburg, Walton, Waterdown, Williamsburg.

Many claims for damages in cases of accident and otherwise have been adjusted.

The department has had charge of the several bond issues made by the Commission during the year.

Summary of transactions:

Number of parcels of land purchased	58
Number of tower rights secured (covering 138 towers)	42
Number of overhang rights secured	34
Number of pole agreements secured (covering 769 poles)	115
Number of anchor agreements secured (covering 356 anchors)	141
Number of tree-trimming agreements secured (covering 1,504 trees)	192
Number of damage claims settled	74

SECTION II

OPERATION OF THE SYSTEMS

The demand for power during the past year has continued to increase on practically all systems, but the effect of the quiet industrial conditions is apparent in the smaller rates of increase. The total amount of power generated or purchased by the Commission during the past year exceeds the large total of three billion kilowatt-hours.

The generating capacity of the Commission's hydro-electric stations has been considerably increased during the year by the completion of the sixth unit at Queenston; by the construction of new power houses, at Dam No. 8 on the Trent river, and at Bingham Chute on the Nipissing system; and by the installation of additional generators, or alterations to plant, increasing the capacity at Cameron falls, Nipissing, and Eugenia falls. These changes have increased the aggregate normal operating capacity of the Commission's plants by over 107,000 horsepower. While this figure may seem large, it represents only a fifteen per cent increase in the generating capacity of the Commission's plants, which would be absorbed by the increase in demand for power during one normal year.

Speaking generally, during the past year the increase in load has been below normal, and less than the increase in generating capacity. In the Georgian Bay system however the increase of 1,200 horsepower in the capacity of the Eugenia Falls plant has not been sufficient to relieve the situation. In the Muskoka system the extension to the South Falls power house has not yet been completed. This last mentioned plant is still operating under heavy loads with no margin to take care of accidents to equipment or to permit taking generators out of service long enough for major maintenance work. The generating capacity of the Thunder Bay system was doubled by the addition of the third and fourth units at Cameron falls, but the load has also doubled and continues to increase. On the Central Ontario system the generating capacity was increased by 6,430 horsepower by the completion of a new power house near Meyersburg, but this represents only eighteen per cent increase in system capacity, and the greater part of this would be required by a normal year's growth in load. Taking the systems as a whole, however, a better operating margin now exists between the capacity available and the power required.

Graphs are given in connection with this report showing the peak loads by months on each system for several years, and an accurate idea may be obtained from these as to the amount and rate of growth of the load on each system.

Details as to the changes on each system are given under their respective headings, but summarizing the operation of all systems, it may be said that operation during the year has been carried on very successfully, with few interruptions to service, and with no serious damage to the Commission's equipment from lightning, electrical disturbances, or other causes. Generating plants, and the lines and equipment generally, have been maintained, and now are in efficient operating condition and are prepared to meet any increase in the demand for power up to their full normal capacity.

It may be in order to add to this last statement a warning that the full capacity of the Commission's generating plants is not sufficient to provide for any abnormal increase in the demand for power, such as may follow an industrial revival, and is even inadequate to meet the needs of power consumers during a year of normal growth. Further sources of power must be provided during the coming year if restrictions on the supply to consumers are to be avoided.

NIAGARA SYSTEM

For the purposes of this report, on account of the actual operating conditions, the Ontario Power Company system and the Toronto Power Company system (with the exception of export power) are combined under the Niagara system. The interconnections between the generating plants (i.e., the Queenston plant, the Ontario Power Company plant, and the Toronto Power Company plant) are such that load may be quickly transferred from one plant to the other. In addition, there are many other points of interconnection on the lines, and at a number of stations, which are utilized for this purpose, all depending on the operating conditions and plant loading at the moment. In Toronto, for instance, the Toronto Hydro-Electric system has installed several interconnecting links between the Commission's stations and lines, and the system formerly known as the Toronto Power Company system, and sections of Toronto load can be switched from one system to the other at will over these tie connections.

For the reasons stated above, separation of the load supplied to Ontario Power Company system and Toronto Power Company system from other loads on the Niagara system would be meaningless, the variations of the load on any system probably indicating merely a transfer of load, not a real change in load conditions.

In previous annual reports, a graph has been included showing the monthly peak loads of the Niagara system back to 1910. A graph has also been given showing the kilowatt-hours taken by the Niagara system since 1918. In the present report the graph has been continued, but, for the past fiscal year, the power supplied to customers on the Ontario Power Company and Toronto Power Company systems on the Canadian side has been included as part of the Niagara system load. This additional load includes that part of the Toronto load which is fed over the Toronto Power Company transmission lines and through Davenport Road station, also the amount supplied to municipalities and power customers in the Niagara Falls district from the Toronto Power Company and Ontario Power Company distributing lines. The inclusion of all Canadian loads fed from the interconnected generating plants and lines places the graphs for the Niagara system on a more logical and consistent basis, and, while it makes comparison between the past year and previous years more difficult, it will make future reports more clear and comprehensive.

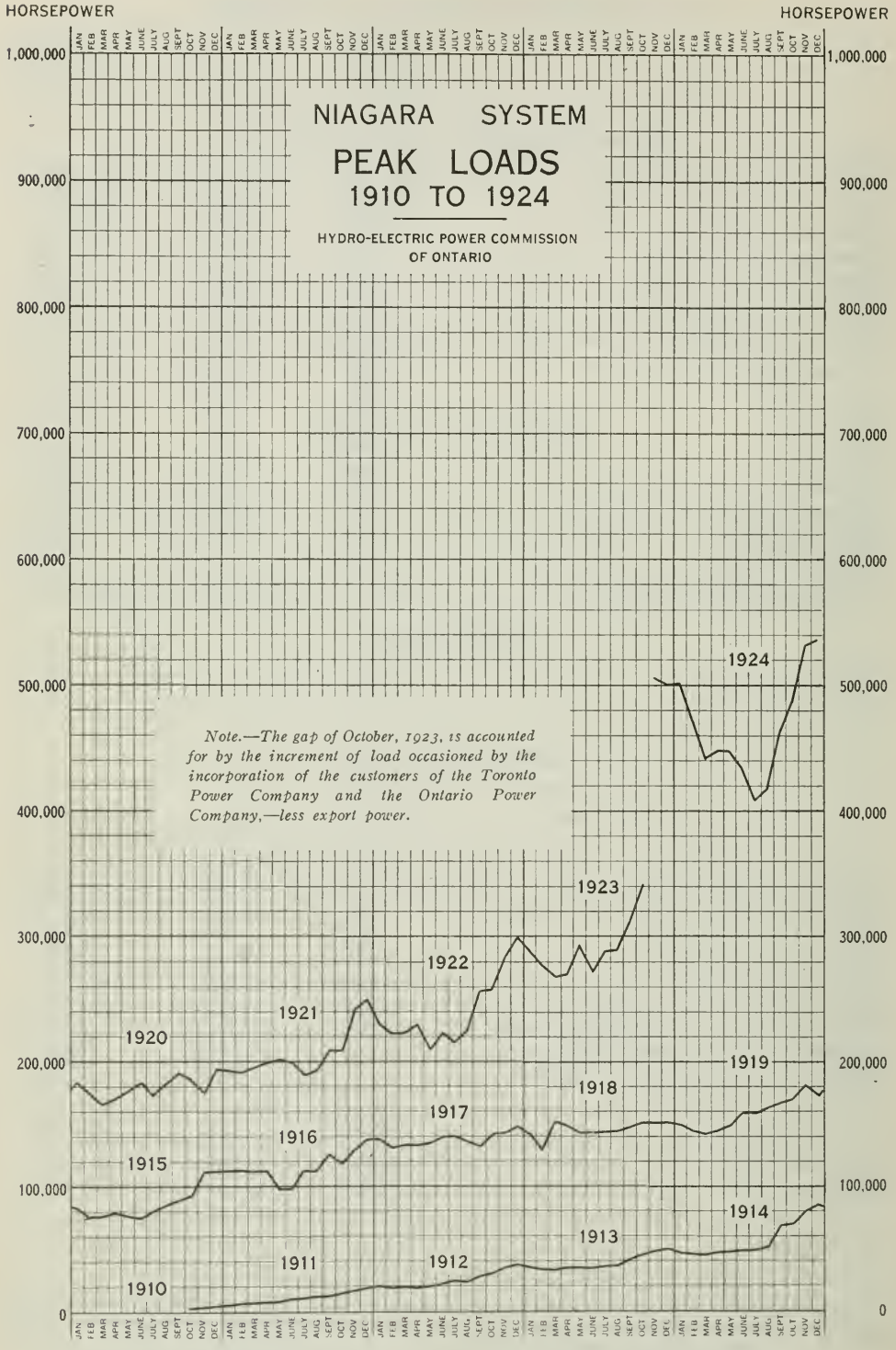
The demand for power from the municipalities on the Niagara system has

TOTAL POWER GENERATED AND PURCHASED

Plant	Normal operating capacity horsepower	Peak load horsepower	Total output during fiscal year kilowatt-hours
HYDRO-ELECTRIC GENERATING PLANTS			
Niagara: Queenston plant	357,000	293,566	1,102,830,000
Niagara: "Ontario Power" plant	183,500	179,490	866,966,700
Niagara: "Toronto Power" plant	145,000	147,050	556,866,000
Sydney, Dam No. 2	4,020	4,960	17,526,200
Frankford, Dam No. 5	3,485	3,686	14,299,450
Meyersburg, Dam No. 8	6,430	5,965	2,463,400
Ranney Falls, Dam No. 10	9,650	12,466	42,121,380
Campbellford, Dam No. 11	4,020	4,128	16,337,350
Heely Falls, Dam No. 14	12,060	15,952	33,612,780
Auburn, Dam No. 18	2,010	2,573	10,024,730
Fenelon Falls, Dam No. 30	1,000	952	4,396,780
Cameron Falls	50,000	34,200	121,925,080
Big Chute	5,760	5,790	23,268,460
Eugenia Falls	7,370	7,064	15,602,200
Wasdells Falls	1,000	1,145	4,579,214
High Falls	2,400	2,782	5,238,480
South Falls	1,400	1,468	5,442,700
Nipissing	1,740	1,960	5,573,914
Bingham Chute	1,200	1,319	1,623,240
Carleton Place	400	375	180,518
Totals, hydro-electric plants	799,445	726,891 *a*	2,850,878,576
STEAM PLANTS			
Toronto steam plant	20,000	.....	.....
POWER PURCHASED			
Company or Commission	Contract amount horsepower	Peak horsepower	Total purchase kilowatt-hours
Canadian Niagara Power Co	20,000	21,984	72,481,300
Hamilton Cataract Power Co	.....	968	1,234,000
Orillia Water, Light & Power Commission	1,200	3,016	4,608,200
Hanover Cement Company	500	579	318,240
Corporation of Bracebridge	150	150	514,406
Cedar Rapids Power Co	6,636	6,636	19,702,500
Rideau Power Company	650	1,000	3,150,504
Ottawa and Hull Power & Mfg. Co	14,500	13,600	45,912,000
Campbellford Water & Light Commission	1,609	2,212	2,262,850
Peterboro Hydraulic Power Company	.....	2,915	520,065
Canadian General Electric Co., Peterboro	.....	1,340	196,000
Corporation of Fenelon Falls *b*	.....	375	22,400
Total purchased	45,245	54,775 *a*	150,922,465
Grand total, 1924	864,690	781,666 *a*	3,001,801,041
Grand total, 1923	756,982	756,668 *a*	2,842,416,705
Increase	.....	.....	159,384,336

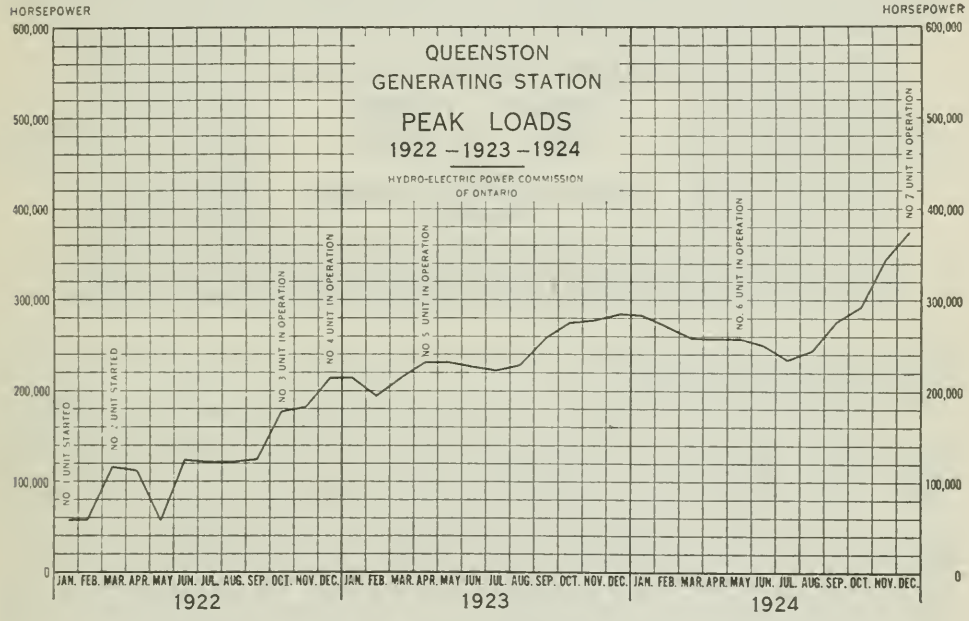
a Peak totals given are direct sums of plant peaks as shown without allowance for diversity in time. Therefore these totals do not indicate the demands on the various systems where there is more than one plant supplying power.

b Power supplied to Central Ontario and Trent system under exchange arrangement.


HORSEPOWER
HORSEPOWER
NIAGARA SYSTEM
PEAK LOADS
1910 TO 1924
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
1,000,000
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC
1924
1923
1922
1921
1920
1919
1918
1917
1916
1915
1914
1913
1912
1911
1910
Note.—The gap of October, 1923, is accounted for by the increment of load occasioned by the incorporation of the customers of the Toronto Power Company and the Ontario Power Company,—less export power.

continued to increase during the year, but the industrial depression prevailing generally is reflected in a slower rate of increase and, taking the system as a whole, the increase in load on the part of the municipalities has been largely offset by the decrease in some of the large power consumers in the Niagara district.

The completion of No. 6 unit at Queenston power house, which was placed in service May 15, 1924, added 62,000 horsepower to the available capacity of the system. The reconstruction of No. 15 unit at the Ontario Power Company plant added another 12,500 horsepower to the generating capacity. In addition to this, 20,000 horsepower was released June 1 for use by the municipalities through the cancellation of a contract with a large power consumer in the Niagara district. This increase in the power available has exceeded the increase in the demand for power by the municipalities during the year, so that there is now a better operating margin between the demand and the supply than existed during the previous year.

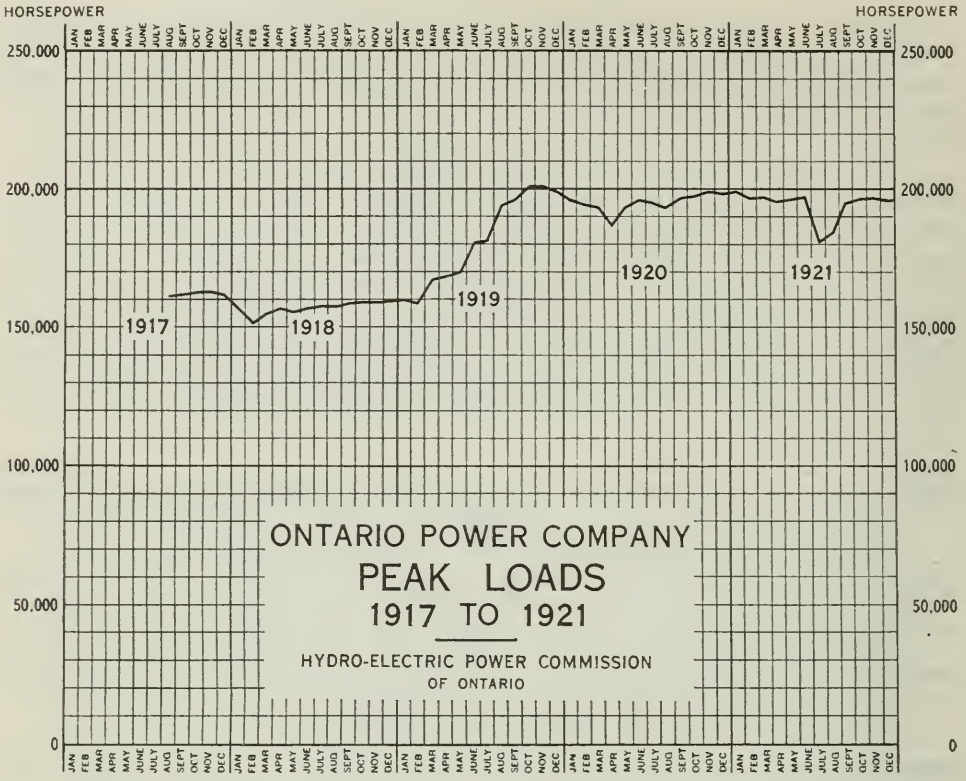


QUEENSTON GENERATING STATION

Plant No. N20

Since the 1923 Report, the new intake at Chippawa has been completed and was put into service for last winter's ice season. The results from this one season's operation were very satisfactory and no ice was drawn in from the Niagara river.

On May 15, 1924, No. 6 unit was placed on load, increasing the station capacity by sixty-two thousand horsepower. Other new equipment includes the auxiliary governor pump, which is fitted with a small Johnson valve and turbine. This pump cuts in automatically if the governor pressure drops, and remains running until shut down by hand, thus affording protection against overspeed which might result from lack of sufficient pressure to hold the turbine gates.



An additional high-tension line was connected into the station, giving a total of six 110,000-volt lines.

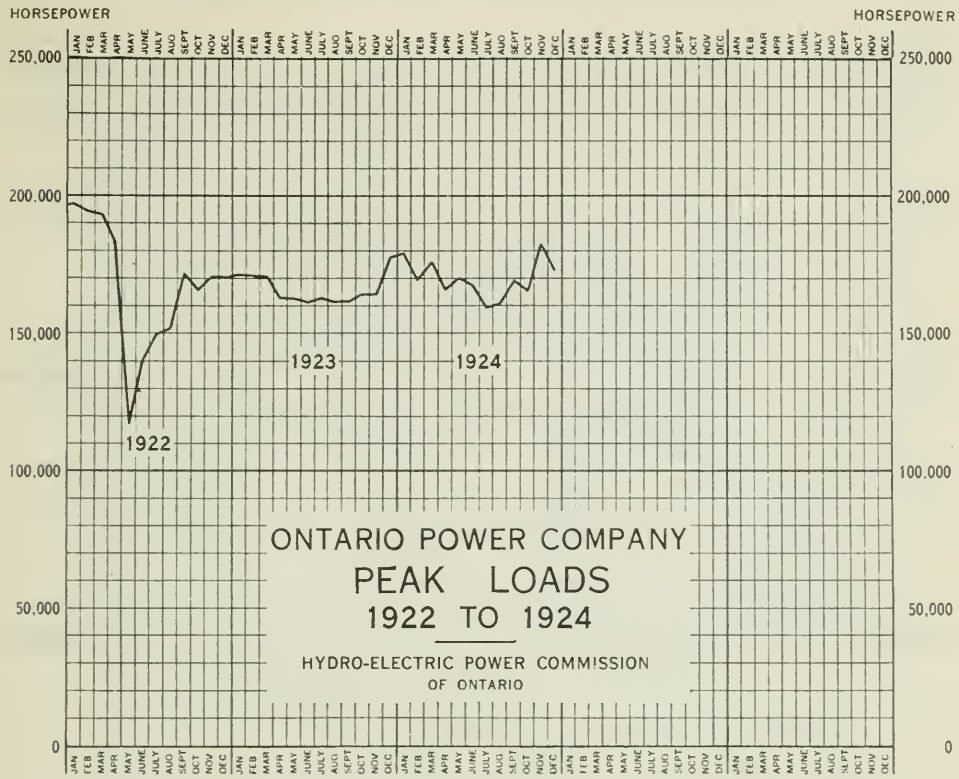
The measurement of power in a large generating station, such as Queenston, is a problem in itself. A specially-designed, totalizing, graphic meter was designed and built by the Commission's staff, and is now in use in measuring the combined output of this, the world's largest hydro-electric station. This meter includes all the best features of design found by long experience to be most desirable and is, in all probability, the largest and most accurate commercial meter in use anywhere. It will measure a total load of 500,000 kilowatts within a fraction of one per cent. The construction is such that the accuracy of the meter is permanent.

Two new lathes were purchased for the machine shop. These tools are motor-driven and are of the latest type. A large boring-bar was also purchased to handle machining of the turbine guide bearings. A number of small tools and other appliances, necessary in a shop handling general work, were constructed by our own staff.

ONTARIO POWER COMPANY GENERATING STATION

Plant No. A1

No. 15 unit, which was destroyed by an accident in April, 1922, has been rebuilt. The turbine was reconstructed from parts of the former equipment used in this section of the power house without any important changes in design. The governor was redesigned and built to conform to the Commission's standards, and the governor pressure supply system was rearranged so that it ties in with

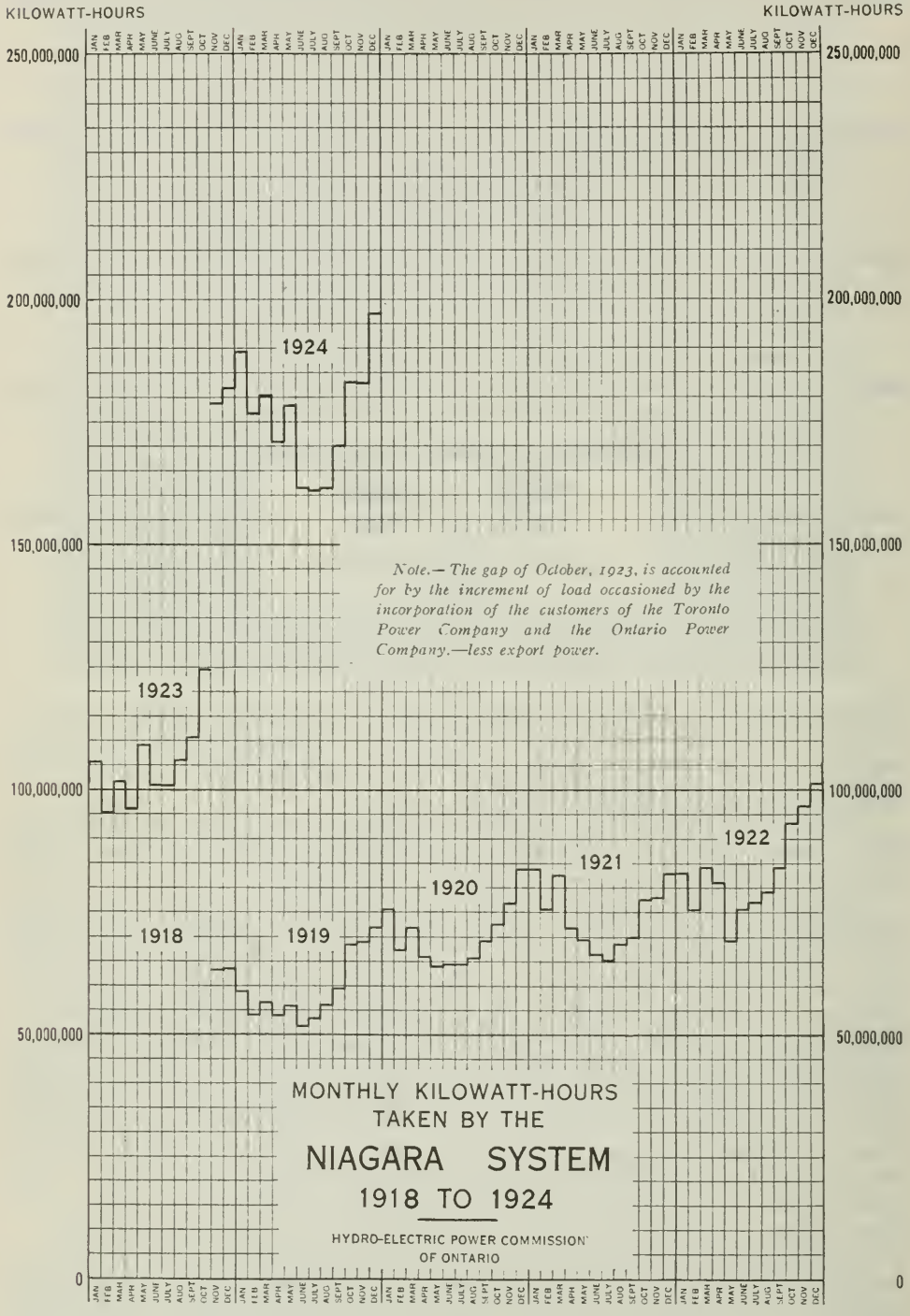


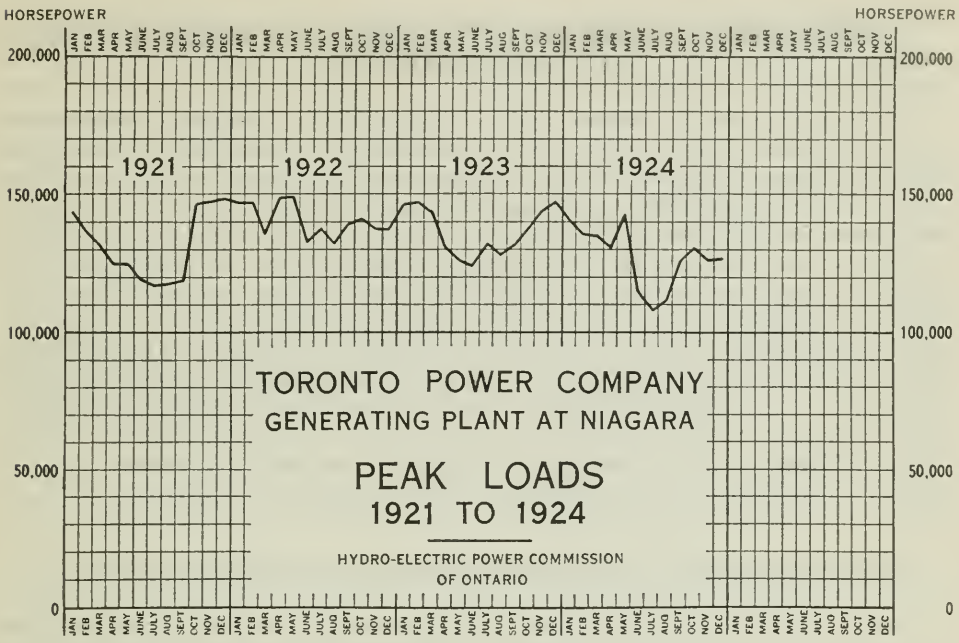
the main governor system of the power house, thus affording flexibility in operation, and increasing the reliability of the service. The generator was built and installed by the Canadian General Electric Company, the entire unit being placed on load on December 1, 1923.

The old No. 16 draft tube was filled solid with concrete up to the floor level. Proper reinforcement was provided to withstand the upward pressure of the river water under extreme high tail-water conditions.

The old concreting plant, used during the construction of the power house, was dismantled and the timber from it salvaged where possible. New drain valves were installed on units Nos. 1 to 15 so that the drains from the generator pits could be opened and closed from the operating floor level. Repairs were made to the windings of Nos. 5 and 6 generators following the breakdown of coils in these machines. No. 5 generator has now been completely rewound, and about half of the old winding in No. 6 has been replaced. The remainder of the old winding will be removed if any further trouble develops. New relief valves were installed on Nos. 5 and 10 penstocks. These valves were redesigned from the original equipment and are now made to operate direct from the gate mechanism of the turbines instead of by pressure rise in the penstocks. This greatly improves the reliability of the valves, and, due to the changes in design, there will be a considerable saving in maintenance and operating expense.

On May 11, No. 2 pipe line was shut down for inspection. This pipe line is eighteen feet in diameter, built of reinforced concrete. The entire pipe was found to be in first-class condition, and no repairs were necessary. During the shut-down of the pipe, No. 2 surge tank was cleaned out and inspected. It was also found to be in first-class condition.


KILOWATT-HOURS
KILOWATT-HOURS
250,000,000
200,000,000
150,000,000
100,000,000
50,000,000
0
1924
1923
1922
1921
1920
1919
1918
Note.— The gap of October, 1923, is accounted for by the increment of load occasioned by the incorporation of the customers of the Toronto Power Company and the Ontario Power Company.—less export power.
MONTHLY KILOWATT-HOURS
TAKEN BY THE
NIAGARA SYSTEM
1918 TO 1924
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO



TORONTO POWER COMPANY GENERATING STATION

Plant No. B1

The installation of differential relays, started last year, was completed and now all of the generators are provided with this form of protection. Neutral resistances were provided for each of the different sections of 12,000-volt load. Since this installation was made, two generator windings broke down, and in both cases the machines were cleared from the load without any damage to the iron. Previous to the installation of the differential relays, the failure of generator windings in this plant had almost always been attended by serious damage to the stator iron of the machine, involving expensive and long drawn-out repairs.

The main power-house elevator was changed over to automatic control.

No. 11 generator was partly rewound and the stator iron damaged by previous failures was removed. This machine is now in first-class condition.

The telephone equipment throughout the station was revised and new protective apparatus installed where necessary. A number of telephones operating on the automatic exchange at the Ontario Power Company plant were installed, connecting with the Ontario Power Company board through an underground cable.

An examination was made of the tail-race tunnel for the first time in eighteen years. The tunnel was found to be in good condition, except that at one point near the middle, a section of the floor had been washed away. Repairs were not made on account of lack of time, but this matter will receive attention during the coming year.

Miscellaneous equipment throughout the power house was rebuilt and overhauled, where necessary, so that the end of the present year finds the entire station in considerably better condition than it was last year.

DISTRIBUTING LINES AND STATIONS IN NIAGARA FALLS DISTRICT

Several important changes in the Ontario Power Company transmission lines were made. The towers of No. 1, 60,000-volt line supplying power to the Niagara, Lockport & Ontario Power Company, were equipped with steel extensions and the line equipped with suspension insulators instead of the previous pin-type insulators. At the same time, the temporary construction over the Queenston-Chippawa canal was replaced by permanent steel towers. The reconstructed line has a much higher factor of safety than the old line, and should result in increased reliability of service and decreased maintenance costs. The 12,000-volt lines supplying power to the Ontario Paper Company, Thorold, were rearranged to clear the right-of-way for the construction of the new Welland ship canal. The 30,000-volt lines at Port Colborne were also relocated on the same account. A new 12,000-volt, outdoor-type station, erected on the St. Catharines-Queenston road, was tied in on the Niagara-on-the-Lake line to supply power for the district in, and around, St. David village and Queenston.

TRANSMISSION, TRANSFORMATION AND DISTRIBUTION

The power supply to the 110,000-volt system from the generating plants at Niagara has been practically continuous, power being completely off the system only once during the year for the space of six minutes. Expressed as a percentage, power was on the system 99.998 per cent of the total time.

The subdivision of the system into two sections, a change made late in the previous year, has worked out most satisfactorily, giving greater reliability of service, limiting short-circuit current and the resultant strains to equipment which occur on the failure of insulators or other apparatus on the system.

The No. 5 and No. 6 lines from Queenston (110,000 volts) are carried from Queenston to Hamilton below the escarpment, following an entirely different route to that used by the lines from Niagara station to Dundas station, which are above the escarpment. At the beginning of the past fiscal year, No. 5 line was in operation as far as the Hamilton high-tension station, which is located to the south of Burlington bay. No. 6 line had not been permanently connected in at Queenston, but, from a temporary connection to No. 5 line just outside Queenston, was in service as far as Hamilton station. As additional lines were needed satisfactorily to take care of the load conditions during the winter months of 1923-24, the two unused, 60,000-volt, Toronto Power Company circuits across Burlington bay were reinsulated with pin-type insulators for 110,000 volts, and the No. 5 and No. 6 Queenston lines were connected to the reinsulated circuits. To the north of Burlington bay, the towers of the new permanent line had been completed as far as Nelson Junction (approximately four miles), and the two circuits were carried on these to tie in with the 110,000-volt lines between Dundas and York stations. A steel-tower line had been constructed from Dundas to York on which one circuit was already in service carrying part of Toronto load. This circuit (on the north side of tower and known as BB circuit) was opened at Nelson Junction, and No. 6 line connected to the section running back into Dundas station, No. 5 line being connected to the section carrying on to York station, and connecting there with lines to Toronto. A new circuit on the south side of the tower was also put in service between Dundas and York

at this time—November 12, 1923—making an additional line of supply. The connections to No. 6 line were revised at the Hamilton Station Junction, so as to carry No. 6 line direct through to Dundas, by route described, without tapping in at Hamilton station. The No. 5 line was made to loop through the Hamilton station and carried from there direct to York.

At York the line switching structure was revised to accommodate the new Dundas to York circuit. The north circuit of the old line (known as the B3 circuit) was disconnected from York structure and tied in to one of the 110,000-volt circuits for Wiltshire and Bridgman stations.

The system was operated throughout the winter of 1923-24 with the above arrangement of lines, and operating conditions were naturally improved on account of the additional lines of supply to Dundas and York stations, giving increased reliability of service, reducing transmission losses and giving better control of voltage regulation.

The permanent structures across Burlington bay were completed and placed in service April 20, and the temporary circuits on the Toronto Power steel poles were disconnected, but left in readiness for emergency.

On May 4 the No. 6 line at Queenston was connected in to the plant through the necessary switching equipment, and made available for the output of No. 6 generator which was put in service a few days later—on May 15.

In Toronto, two new high-tension stations have been completed and were placed in operation October 9, 1924. These are of the out-door type, having a capacity of 30,000 kv-a. each, and are located at Bridgman avenue in the north of the city, and Wiltshire avenue in the north-west part of the city.

A new double-circuit, 110,000-volt line was built from York station to Islington, connecting at York station with two lines from Dundas, and at Islington, connecting with two circuits on the Toronto Power Company's steel-tower line. These two lines on the Toronto Power towers were formerly rated at 60-kv., but had not been in service for some years. They were reinsulated for 110,000 volts and connected into the new stations at Wiltshire avenue and Bridgman avenue.

The temporary York high-tension station, which had been damaged by fire on December 4, 1922, was rebuilt as an out-door station, having the power transformers, the 110,000 volt switches, the 13,200-volt switches and bus located outside, with the metering and control apparatus inside. Portions were placed in service from time to time, but the station was completed and put into operation December 9, 1923.

At Brant high-tension station changes were made in the high-tension bus, which improve operating conditions, and facilitate maintenance work and the cleaning of the high-tension equipment without interrupting the supply of power. The 110,000-volt, horn-gap towers on two of the high-tension lines were redesigned with sphere-gap equipment, and placed in service October 4, 1924. It is expected that this change will greatly improve the protective features of the 110,000-volt, electrolytic, lightning arresters.

At Kitchener, the connection of the second 110,000-volt line to the Kitchener high-tension station bus, through the necessary switching equipment, has made a decided improvement in the operation of the stations on the north loop between Dundas and London.

On the high-tension lines and distributing lines, the usual inspection and maintenance work was carried out during the year. On the 110,000-volt and 46,000-volt lines, inspection was made of 150,620 insulators, of which 2,333 tested as defective and were removed. This gives a percentage of 1.55 per cent defective and eliminated. On the four 110,000-volt lines between Niagara station and Dundas station, the loops were all reinforced, and new and additional clamps installed.

During the year, electric storms were reported on thirty days, nine of which were of a general nature, traversing the greater part of the system. Wind storms, of cyclonic proportions, and covering small sections of the system, were reported on several occasions; one of these in the Stratford district, and another in the Cooksville district, caused some damage to low-tension distributing lines, and inconvenience to local customers. The high-tension transmission lines were not affected by any of these storms.

The capacity of Kent high-tension station has been increased by the installation of three 2,500 kv-a. transformers, replacing three of 1,250 kv-a. capacity. This change was made January 20, 1924.

At Brant station the capacity was also increased by the installation of three 5,000 kv-a. transformers, installed outside of the station, and placed in service September 20, 1924.

During the year a number of changes have been made in the capacity of the distributing stations as follows:

Tilbury	Three 75-kv-a. transformers replaced by three 150-kv-a.
Acton	Three 75-kv-a. transformers added.
New Hamburg	Three 75-kv-a. transformers added.
Etobicoke Township Station	A second 300-kv-a., three-phase, outdoor unit added.
Delaware	Three 25-kv-a. units replaced by three 50-kv-a.
Woodbridge	One 150-kv-a., three-phase, outdoor unit added.
Bond Lake	A second bank of three 300-kv-a., single-phase units added.
Wallaceburg	Three 150-kv-a. units replaced by one 1,500-kv-a., three-phase unit.
St. Jacobs	One 75-kv-a., three-phase, outdoor transformer replaced by by one 150-kv-a., three-phase, outdoor unit.
Thorold	Increased by addition of three 250-kv-a., single-phase units.
Blenheim	Three 75-kv-a., single-phase units replaced by three 150-kv-a., single-phase units.

New distributing stations have been placed in operation with transformer equipment as follows:

Waterdown	One 300-kv-a., three-phase, outdoor unit.
Lakeview Railway Station	Three 185-kv-a., single-phase units.
Glendale	One 150-kv-a., three-phase, outdoor unit.
St. Davids	One 300-kv-a., three-phase, outdoor unit.
Walton	One 150-kv-a., three-phase, outdoor unit.
Decewsville	One 300-kv-a., three-phase, outdoor unit.
Broughdale	Three 150-kv-a., single-phase units.

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load, 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Acton	261.3	352.5	359.2	.....	6.7
Agincourt	.....	33.5	50.9	.....	17.4
Ailsa Craig	112.6	126.0	64.3	61.7	.....
Alvinston	83.3	85.7	135.0	.....	49.3
Ancaster Township	.....	185.7	225.2	.....	39.5
Aylmer	217.7	253.3	310.0	.....	56.7
Ayr	84.4	91.0	73.4	17.6	.....
Baden	155.5	250.6	252.7	.....	2.1
Beachville	268.0	353.8	400.5	.....	46.7
Belle River	.....	53.6	65.6	.....	12.0
Blenheim	202.4	174.0	307.0	.....	133.0
Bolton	122.7	134.9	94.1	40.8	.....
Bothwell	124.0	126.8	149.0	.....	22.2
Brampton	1,072.3	1,249.3	1,300.3	.....	51.0
Brantford	5,811.0	7,292.0	7,384.8	.....	92.8
Brigden	35.5	42.3	133.5	.....	91.2
Burford	58.7	68.6	83.6	.....	15.0
Burgessville	32.0	37.5	40.2	.....	2.7
Caledonia	118.0	147.6	198.4	.....	50.8
Chatham	3,056.3	3,053.6	3,454.2	.....	400.6
Chippawa Village	79.0	109.9	142.0	.....	32.1
Clinton	186.3	265.4	312.3	.....	46.9
Comber	99.0	102.9	170.2	.....	67.3
Dashwood	43.7	51.2	42.3	8.9	.....
Delaware	16.6	13.4	19.0	.....	5.6
Dereham Township	62.4	69.4	91.7	.....	22.3
Dixie	100.8	131.3	189.0	.....	57.7
Dorchester	21.4	48.4	55.1	.....	6.7
Drayton	56.3	67.0	81.7	.....	14.7
Dresden	177.0	202.4	190.3	12.1	.....
Drumbo	35.1	30.8	49.2	.....	18.4
Dublin	30.2	30.3	36.2	.....	5.9
Dundas	1,024.0	1,159.5	1,064.3	95.2	.....
Dunnville	348.5	363.2	395.4	.....	32.2
Dutton	115.2	130.6	163.5	.....	32.9
Elmira	415.5	425.0	615.0	.....	190.0
Elora	272.0	250.6	289.1	.....	38.5
Embro	63.5	60.0	53.1	6.9	.....
Essex	130.0	142.0	187.6	.....	45.6
Essex County System	1,273.4	1,433.6	1,710.5	.....	276.9
Etobicoke Township	663.5	857.8	1,215.8	.....	358.0
Exeter	232.0	261.0	270.8	.....	9.8
Fergus	295.0	309.6	292.2	17.4	.....
Ford City	977.6	1,407.5	1,473.2	.....	65.7
Forest	133.5	125.4	193.0	.....	67.6
Galt	4,222.5	4,906.0	5,095.3	.....	189.3
Georgetown	536.0	682.3	570.5	111.8	.....
Glencoe	79.8	82.5	97.3	.....	14.8
Goderich	510.7	654.1	898.0	.....	243.9
Grantham Township	46.3	103.2	139.5	.....	36.3
Granton	42.8	42.8	45.0	.....	2.2
Guelph	4,689.0	5,328.4	6,122.0	.....	793.6

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924—Continued

Municipality	Peak load in horsepower			Change in load, 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Hagersville	536.0	689.5	780.1	.....	90.6
Hamilton	21,542.0	23,447.0	23,954.0	.....	507.0
Harriston	171.5	196.5	225.2	.....	28.7
Harrow	54.6	96.5	95.7	0.8	.....
Hensall	60.7	56.7	67.1	.....	10.4
Hespeler	509.3	630.0	699.7	.....	69.7
Highgate	73.4	80.4	60.3	20.1	.....
Humberstone	55.0	76.0	118.0	.....	42.0
Ingersoll	1,323.0	1,457.0	1,551.9	.....	94.9
Kingsville	261.3	280.0	219.8	60.2	.....
Kitchener	7,868.6	10,301.6	10,482.5	.....	180.9
Lambeth	42.9	50.5	59.0	.....	8.5
Leamington	364.6	364.6	414.2	.....	49.6
Listowel	394.0	429.0	489.3	.....	60.3
London	16,442.0	18,114.6	17,418.0	696.6	.....
Lucan	116.6	122.0	164.7	.....	42.7
Lynden	83.0	117.9	119.3	.....	1.4
Markham	83.6	114.4	91.0	23.4	.....
Merlin	.....	88.4	85.8	2.6	.....
Merritton	273.4	375.3	615.3	.....	240.0
Milton	923.5	985.0	933.0	52.0	.....
Milverton	340.4	426.2	433.0	.....	6.8
Mimico	812.3	981.2	1,240.0	.....	258.8
Mimico Asylum	37.5	37.5	37.5	.....	.....
Mitchell	241.2	256.0	305.6	.....	49.6
Moorefield	47.5	34.2	40.2	.....	6.0
Mount Brydges	30.1	28.8	37.3	.....	8.5
Newbury	21.4	33.5	29.5	4.0	.....
New Hamburg	227.4	360.5	382.8	.....	22.3
New Toronto	1,863.3	1,984.0	2,780.2	.....	796.2
Niagara Falls	4,646.0	5,565.6	6,106.0	.....	540.4
Niagara-on-the-Lake	205.4	215.8	261.4	.....	45.6
Norwich	360.5	337.8	445.0	.....	107.2
Oil Springs	223.8	214.4	210.4	4.0	.....
Ontario Agriculture College	221.0	248.0	174.2	73.8	.....
Ontario Central Reformatory	191.0	209.1	183.6	25.5	.....
Otterville	44.2	49.5	51.7	.....	2.2
Palmerston	202.4	233.2	289.5	.....	56.3
Paris	904.8	1,008.0	1,104.1	.....	96.1
Parkhill	65.2	85.7	93.3	.....	7.6
Petrolea	536.0	768.0	792.2	.....	24.2
Plattsville	28.1	36.2	35.2	1.0	.....
Port Colborne	398.0	469.0	710.4	.....	241.4
Port Credit	186.3	207.7	306.3	.....	98.6
Port Dalhousie	152.8	182.3	214.5	.....	32.2
Port Dover	73.7	114.0	131.1	.....	17.1
Port Robinson	314.0	299.0	In Welland	R.P.D..	.....
Port Stanley	144.7	147.4	147.4	.....	.....
Preston	2,024.0	2,193.0	2,497.3	.....	304.3
Princeton	24.0	28.1	37.0	.....	8.9

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924—Continued

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Queenston	37.5	53.6	91.0	.....	37.4
Ridgetown	249.8	249.3	311.0	.....	61.7
Riverside	163.5	281.5	391.4	.....	109.9
Rockwood	50.4	51.4	59.7	.....	8.3
Rodney	110.2	67.9	74.1	.....	6.2
St. Catharines	5,120.0	6,079.0	6,314.4	.....	235.4
St. Clair Beach	23.8	49.6	57.6	.....	8.0
St. George	60.3	82.4	79.0	3.4	.....
St. Jacobs	32.0	42.8	47.2	.....	4.4
St. Marys	744.0	835.1	975.8	.....	140.7
St. Thomas	3,025.4	3,748.0	3,825.1	.....	77.1
Sarnia	3,526.0	4,278.8	4,281.8	.....	3.0
Scarboro Township	366.9	755.0	1,390.0	.....	635.0
Seaforth	308.3	384.7	402.1	.....	17.4
Simcoe	403.3	542.8	650.6	.....	107.8
Springfield	24.7	26.8	29.5	.....	2.7
Stamford Township	761.3	748.0	796.4	.....	48.4
Stouffville	.....	79.7	84.5	.....	4.8
Stratford	3,760.0	4,825.7	5,466.4	.....	640.7
Strathroy	454.0	512.0	596.5	.....	84.5
Streetsville	329.7	563.0	497.3	65.7	.....
Sutton	.....	53.6	63.6	.....	10.0
Tavistock	127.3	183.6	218.5	.....	34.9
Tecumseh	80.0	95.0	120.6	.....	25.6
Thamesford	87.0	114.0	108.6	5.4	.....
Thamesville	79.0	85.7	109.2	.....	23.5
Thedford	42.6	41.8	45.0	.....	3.2
Thorndale	66.8	45.5	32.1	13.4	.....
Tilbury	203.7	186.3	313.7	.....	127.4
Tillsonburg	368.3	504.6	536.8	.....	32.2
Toronto	87,600.5	109,411.5	124,662.0	.....	15,250.5
Toronto Township	405.0	524.0	710.4	.....	186.4
Thorold	484.0	718.5	697.0	21.5	.....
Walkerville	4,705.0	4,246.6	4,017.5	229.1	.....
Wallaceburg	864.6	765.9	1,292.9	.....	527.0
Wardsville	12.8	13.6	16.0	.....	2.4
Waterdown	112.0	164.8	195.0	.....	30.2
Waterford	187.6	182.3	175.6	6.7	.....
Waterloo	1,525.4	1,843.0	2,245.3	.....	402.3
Watford	96.0	85.7	102.1	.....	16.4
Welland	1,675.7	1,863.2	2,202.4	.....	339.2
Wellesley	127.3	142.0	128.7	13.3	.....
West Lorne	193.4	222.5	278.8	.....	56.3
Weston	1,402.0	1,785.4	1,840.5	.....	55.1
Windsor	9,001.3	13,652.5	15,932.9	.....	2,280.4
Woodbridge	165.0	214.4	272.0	.....	57.6
Woodstock	2,260.0	2,924.2	3,280.5	.....	356.3
Wyoming	39.4	42.8	48.2	.....	5.4
Zurich	84.3	72.3	42.9	29.4	.....

NIAGARA SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Barton Township	Mar., 1924	427.2	473.0	.....	45.8
Blyth	July 18, 1924	41.5	70.0	.....	28.5
Brantford Township	May 1, 1924	315.2	319.6	.....	4.4
Brussels	July 11, 1924	66.2	101.6	.....	35.4
Cayuga	Oct. 27, 1924	49.6	49.6	.....	.....
Clifford	May 11, 1924	26.8	32.1	.....	5.3
Courtright	Jan. 15, 1924	22.7	28.8	.....	6.1
Erieau	July 12, 1924	12.0	25.4	.....	13.4
Jarvis	Feb. 18, 1924	19.4	135.0	.....	115.6
North York Township	Nov., 1923	70.1	364.5	.....	294.4
Point Edward	Nov., 1923	191.0	496.0	.....	305.0
Sandwich	Feb., 1924	1,319.0	1,610.4	.....	291.4
Wheatley	Feb. 23, 1924	46.9	59.0	.....	12.1

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1923-1924

Rural power district	Peak load in horsepower		Change in load 1923-1924	
	Oct., 1923	Oct., 1924	Decrease	Increase
Aylmer	6.7	13.9	.....	6.2
Baden	32.1	24.6	7.5	.....
Beamsville	134.0	233.2	.....	99.2
Belle River	105.2	111.2	.....	6.0
Brant	46.4	62.0	.....	15.6
Chatham	52.2	68.6	.....	16.4
Chippawa	64.3	61.6	2.7	.....
Delaware	43.5	56.1	.....	12.6
Dorchester	101.7	94.5	7.2	.....
Drumbo	18.0	28.1	.....	10.1
Dundas	9.6	85.8	.....	76.2
Exeter	49.4	45.8	3.6	.....
Galt	15.0	26.7	.....	11.7
Homer	6.3	14.0	.....	7.7
Ingersoll	0.4	0.4	.....	.....
Jordan	18.3	22.0	.....	3.7
London	19.4	531.4	.....	512.0
Lynden	10.0	37.5	.....	27.5
Markham	16.0	47.6	.....	31.6
Niagara	32.0	111.2	.....	79.2
Petrolea	4.2	8.0	.....	3.8
Preston	105.0	148.6	.....	43.6
Ridgetown	38.8	61.6	.....	22.8
St. Jacobs	16.0	105.5	.....	89.5
St. Thomas	20.0	120.8	.....	100.8
Simcoe	15.0	15.0	.....	.....
Stamford	32.6	53.6	.....	21.0
Streetsville	0.6	1.0	.....	0.4
Tavistock	22.5	27.8	.....	5.3
Wallaceburg	11.5	77.2	.....	65.7
Waterdown	7.4	10.0	.....	2.6
Welland	11.4	642.1	.....	.....
Woodbridge	19.7	72.0	.....	52.3
Woodstock	152.2	156.5	.....	4.3

NIAGARA SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Barton	June 13, 1924	16.7	14.0	2.7	.....
Blenheim	Aug., 1924	3.2	5.4	.....	2.2
Bolton	June 21, 1924	2.0	.2	1.8	.....
Bond Lake	Mar. 1, 1924	57.5	84.0	.....	26.5
Bothwell	Dec. 7, 1923	5.4	5.4	.....	.....
Brampton	Nov., 1923	1.0	4.0	.....	3.0
Harrow	Nov. 1, 1924	6.7	4.0	2.7	.....
Keswick	Mar., 1924	15.0	73.9	.....	58.9
Kingsville	Nov. 1, 1924	32.0	18.5	13.5	.....
Lansing	Mar., 1924	41.0	53.7	.....	12.7
Leamington	Nov. 1, 1924	107.2	99.2	8.0	.....
Mountjoy	Jan. 17, 1924	1.0	2.5	.....	1.5
Scarboro	Jan., 1924	6.0	7.5	.....	1.5
Stratford	July 1, 1924	144.7	116.6	28.1	.....
Tilbury	Dec., 1923	1.4	1.4	.....	.....
Tillsonburg	Dec. 11, 1923	21.4	27.5	.....	6.1
Waterford	May 1, 1923	19.3	19.8	.....	0.5

GEORGIAN BAY SYSTEM

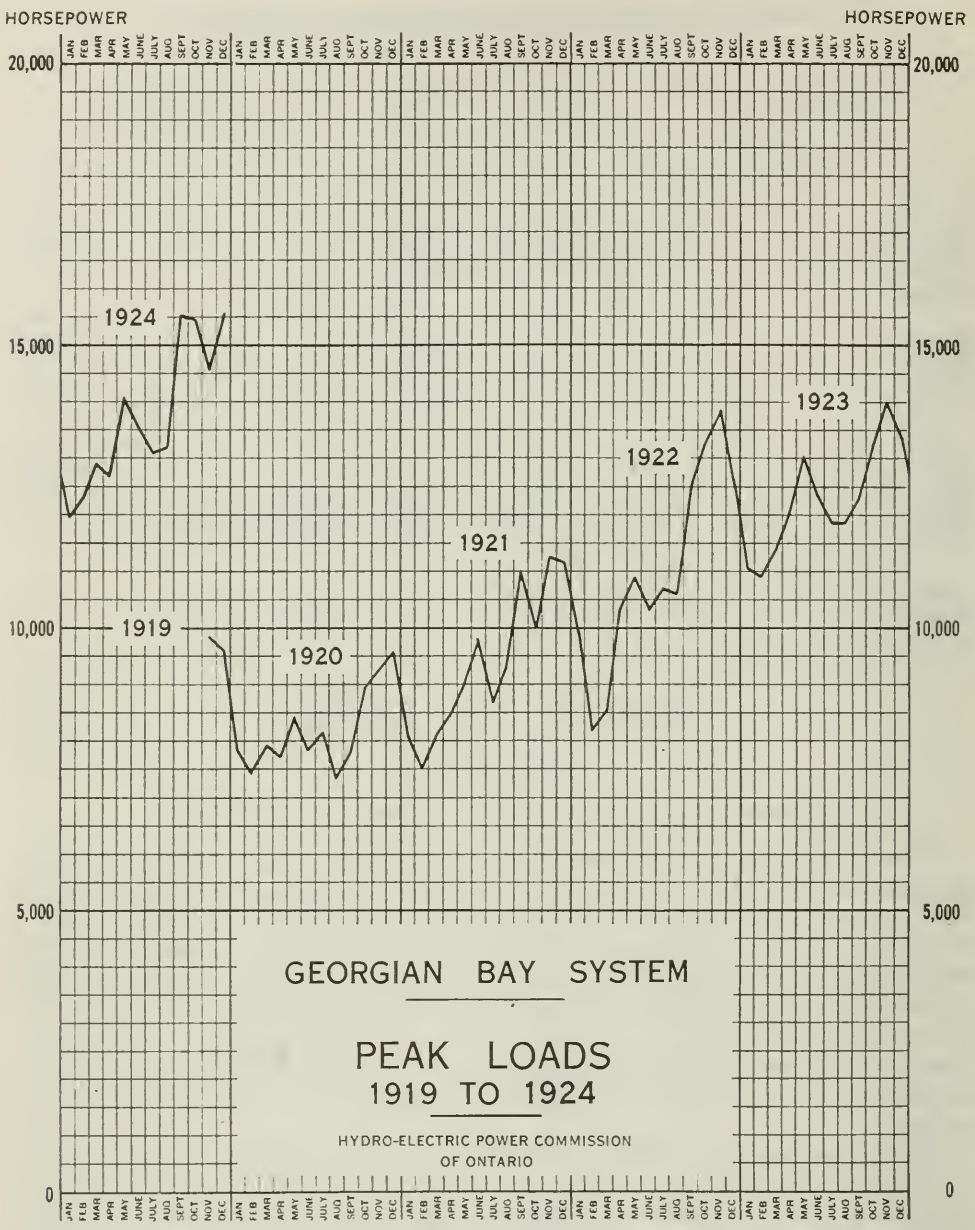
Combining

SEVERN, EUGENIA AND WASDELLS SYSTEMS*

For the purpose of obtaining greater efficiency and to facilitate better operation of the various generating stations and connecting transmission lines, the Commission on January 31, 1924, authorized and approved the amalgamation of the Eugenia, Severn, Wasdells, and Muskoka systems to be known in future as the Georgian Bay system. These three systems were previously inter-connected physically, and have been referred to in past reports as the Combined Northern system. The plants can now be loaded so as to best conserve water for the good of the whole system, and the load can be transferred from one plant to another whenever it is desired to take equipment out of service for adjustment or repair.

At the beginning of the fiscal year 1923-24, there was some anxiety over the increasing load and the shortage of water. The mild autumn weather of 1923, with heavy rain, improved conditions, and although the demand for power during the first month of the fiscal year—November, 1923,—established a new high record, it was possible to supply all power required, without curtailment, by purchasing from the Orillia commission, and by the transfer of power from the Niagara system through the frequency changer set at Mount Forest. The

*The combining of these individual systems into a single unit was accomplished under legislation as provided in an amendment to the Power Commission Act, R.S.O., c. 39, section 23 (b) (1918 c. 14, sec. 7), which was passed by the legislature at its last session. As certain extensions at the Muskoka development at South Falls and the transmission line between this development and the other systems of the amalgamation could not be completed and placed in operation until 1925, the Muskoka system has this year been treated as a separate unit, but will be included in the next annual report as a part of the Georgian Bay system.



load decreased slightly in December and the following winter months, but has increased again during the past summer. The September load (which was particularly heavy) was twenty-six per cent above the load of September, 1923, and the October load was sixteen per cent above that of October, 1923. This increase in demand on plants already heavily loaded has been successfully met up to the present.

At the Eugenia plant the erection of the second pipe line, with surge tank, was completed and put in service on May 26. This increased the plant capacity and makes possible repairs on either pipe line without completely shutting down

the station. The increased capacity of the Eugenia power house, approximately 1,200 horsepower, has helped the system to meet the increased demand for power.

The frequency changer station at Mount Forest transferred power from the Niagara system at a high load factor while in operation. In January, 1924, the armature winding on the 25-cycle end of the frequency changer set failed, and the set was out of service until a complete new winding could be procured and installed. The field winding was completely reinsulated and the armature frame repaired while the set was shut down. These repairs were completed and the set put back into service in the early part of September. As a result of the new winding installed, the capacity of the set has been slightly increased.

The end of the fiscal year sees all generating plants in efficient operating condition, and carrying the load without curtailment, but with a very narrow margin to meet possible increase in load or shortage in water supply.

EUGENIA DIVISION

On the Eugenia division the high-tension lines were extended to Meaford, to the new transformer station constructed in that municipality, and service was first given at the end of January.

On the high-tension line between Shelburne and Orangeville extensive maintenance work was carried out, defective crossarms and insulators being replaced, poles examined carefully for butt-rot and any weakened poles stubbed.

A considerable amount of work on the high-tension line was caused by alterations necessary on account of road work, principally in connection with the provincial highways.

SEVERN DIVISION

At the Big Chute plant the pipe line was repainted, and the usual maintenance work on electrical and hydraulic equipment carried out. The roofing on the old section of the power house was renewed, putting all the roof in good condition.

Extensive maintenance work was done on the transmission lines in the way of reinforcing poles found to be defective at the butt, and changing defective crossarms and insulators on the older lines.

Additional protective equipment was installed on the telephones at a number of stations for the safety of the operators.

WASDELLS DIVISION

At the Wasdells power house the electrical and hydraulic equipment was maintained in efficient condition, and the plant operated normally at the full output permitted by the stream flow. The concrete piers of the dam at this power house had become worn by ice and refuse on the up-stream side. These were repaired and reinforced by steel plates. A guide rail was mounted on the full length of the dam for the safety of the operators when raising or lowering stop logs or crossing the dam. In connection with this railing, a power circuit was erected in conduit, with outlets at suitable points, for operating the motor on the stop-log winch. A timber structure was built in one of the sluiceways to assist the lumbermen in running logs past the dam without too great a waste of water, and to protect the concrete piers and floors of the sluiceways.

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Severn Division					
Alliston	119.0	135.0	143.4	.....	8.4
Barrie	1,057.6	1,315.6	1,378.0	.....	62.4
Beeton	89.6	97.8	96.5	1.3	.....
Bradford	70.6	87.6	108.2	.....	20.6
Camp Borden	234.5	214.4	216.0	.....	1.6
Coldwater	108.5	84.4	62.7	21.7	.....
Collingwood	1,161.0	1,239.2	1,135.4	103.8	.....
Cookstown	36.0	39.9	44.2	.....	4.3
Creemore	56.3	57.6	72.3	.....	14.7
Elmvale	136.7	143.0	144.1	.....	1.1
Midland	1,583.0	1,605.9	2,996.0	.....	1,390.1
Penetang	811.0	471.8	370.0	101.8	.....
Port McNicoll	49.5	57.6	67.7	.....	10.1
Stayner	112.6	108.5	122.1	.....	13.6
Thornton	14.0	16.3	19.0	.....	2.7
Tottenham	35.3	40.8	46.3	.....	5.5
Victoria Harbour	47.0	52.0	56.3	.....	4.3
Waubaushene	26.5	33.5	37.9	.....	4.4
Eugenia Division					
Arthur	100.5	109.2	115.2	.....	6.0
Carlsruhe and Neustadt	167.5	221.1	191.7	29.4	.....
Chatsworth	52.8	28.9	32.1	.....	3.2
Chesley	268.8	293.0	322.0	.....	29.0
Dundalk	109.3	128.6	119.3	9.3	.....
Durham	573.7	474.0	469.2	4.8	.....
Elmwood	29.6	36.9	38.8	.....	1.9
Flesherton	36.2	54.7	62.2	.....	7.5
Grand Valley	65.0	70.5	80.4	.....	9.9
Hanover	1,675.7	1,579.0	1,435.6	143.4	.....
Holstein	8.0	10.4	14.4	.....	4.0
Hornings Mills	5.0	5.0	5.0	.....	.....
Kincardine	179.6	227.8	238.6	.....	10.8
Lucknow	87.0	81.7	83.1	.....	1.4
Markdale	92.4	112.6	102.2	10.4	.....
Mount Forest	205.8	170.2	196.4	.....	26.2
Orangeville	194.6	244.4	280.1	.....	35.7
Owen Sound	1,691.7	1,731.9	1,702.5	29.4	.....
Paisley	.....	56.3	71.0	.....	14.7
Priceville	10.4	10.0	12.8	.....	2.8
Ripley	77.7	39.6	51.0	.....	11.4
Shelburne	147.4	148.7	205.0	.....	56.3
Tara	42.8	46.2	54.3	.....	8.1
Teeswater	67.6	132.7	115.8	16.9	.....
Wingham	297.5	380.7	368.6	12.1	.....
Wasdells Division					
Beaverton	119.9	132.7	167.5	.....	34.8
Brechin	53.6	50.9	44.7	6.2	.....
Cannington	92.5	93.8	102.4	.....	8.6
Kirkfield	32.7	26.8	32.4	.....	5.6
Port Perry	80.4	91.0	95.8	.....	4.8

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924—Continued

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Wasdells Division—Continued					
Sunderland	60.3	56.3	56.0	0.3	.....
Uxbridge	88.4	83.0	107.0	.....	24.0
Victoria Rd	.....	13.6	10.8	2.8	.....
Woodville	61.0	57.6	52.0	5.6	.....

GEORGIAN BAY SYSTEM—NEW MUNICIPALITIES

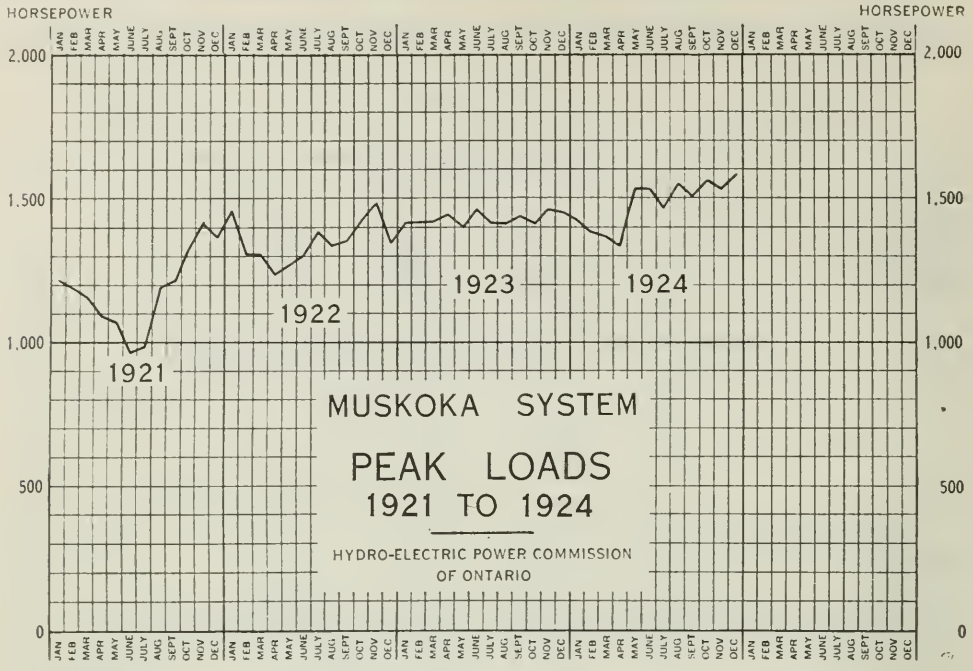
Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Eugenia Division					
Meaford	Jan. 31, 1924	182.3	220.0	.....	37.7

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1923-1924

Rural power district	Peak load in horsepower		Change in load 1923-1924	
	Oct., 1923	Oct., 1924	Decrease	Increase
Severn Division				
Barrie	11.4	16.0	.....	4.6
Nottawasaga	12.8	17.4	.....	4.6
Stayner	6.7	12.7	.....	6.0
Eugenia Division				
Flesherton	1.0	3.5	.....	2.5
Walkerton	1.0	1.0	.....	.....
Wasdells Division				
Mariposa	38.8	37.5	1.3	.....
Port Perry	3.0	2.5	0.5	.....

GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Severn Division					
Elmvale	Jan. 10, 1924	9.6	8.9	0.7	.....
Eugenia Division					
Markdale	July, 1924	5.0	5.0	.....	.....
Wasdells Division					
Cannington No. 1	May 1, 1924	10.0	11.0	.....	1.0
Cannington No. 2	May 1, 1924	9.0	11.0	.....	2.0



MUSKOKA SYSTEM

The Muskoka system has continued to operate for another year with the demand for power pressing so closely on the generating capacity that there has been little opportunity to take equipment out of service for maintenance, adjustment or repair. There has been little change in the amount of the load, but any marked increase would be impossible until further capacity is available.

The power house at South Falls is being extended and construction work on the additional section has been going forward during the year.

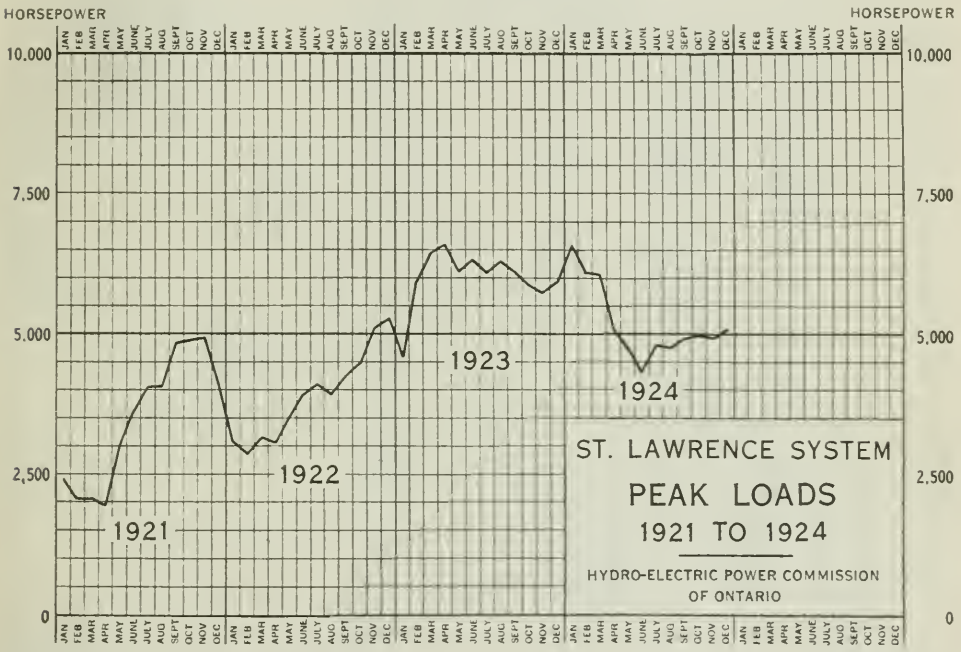
As the plant was already loaded to the limit of its capacity in supplying the municipalities on the Muskoka system, it was necessary to get additional power from outside to meet the requirements of construction work. Arrangements were made with the Bracebridge commission for the installation by this Commission of the necessary equipment in Bracebridge local plant, and for the construction of the necessary line to link the Bracebridge power house with the Commission's 22,000-volt line passing through Bracebridge. Power supplied to the system lines from the Bracebridge plant has assisted in supplying the system load and released a corresponding amount for use on the construction work at South Falls.

Trouble which developed on the turbine of No. 2 unit at the South Falls plant on June 20 required extensive emergency repair work, and made necessary a short curtailment in the supply of power to consumers. Several cases of trouble developed on the field winding of No. 1 generator, and all field coils were reinsulated between coils and ground on May 3, 4 and 5, work being carried out while load was light over the week-end, and with such assistance as could be obtained from the Bracebridge plant. Both units in this plant have been kept so constantly in service, and so heavily loaded, that they will require considerable maintenance work as soon as the new extension is in operation, or the station tied in with the Georgian Bay system.

At Huntsville station the series-trip relays on the high-tension oil-breaker were replaced by current-transformers and a more efficient type of relay protection.

MUSKOKA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

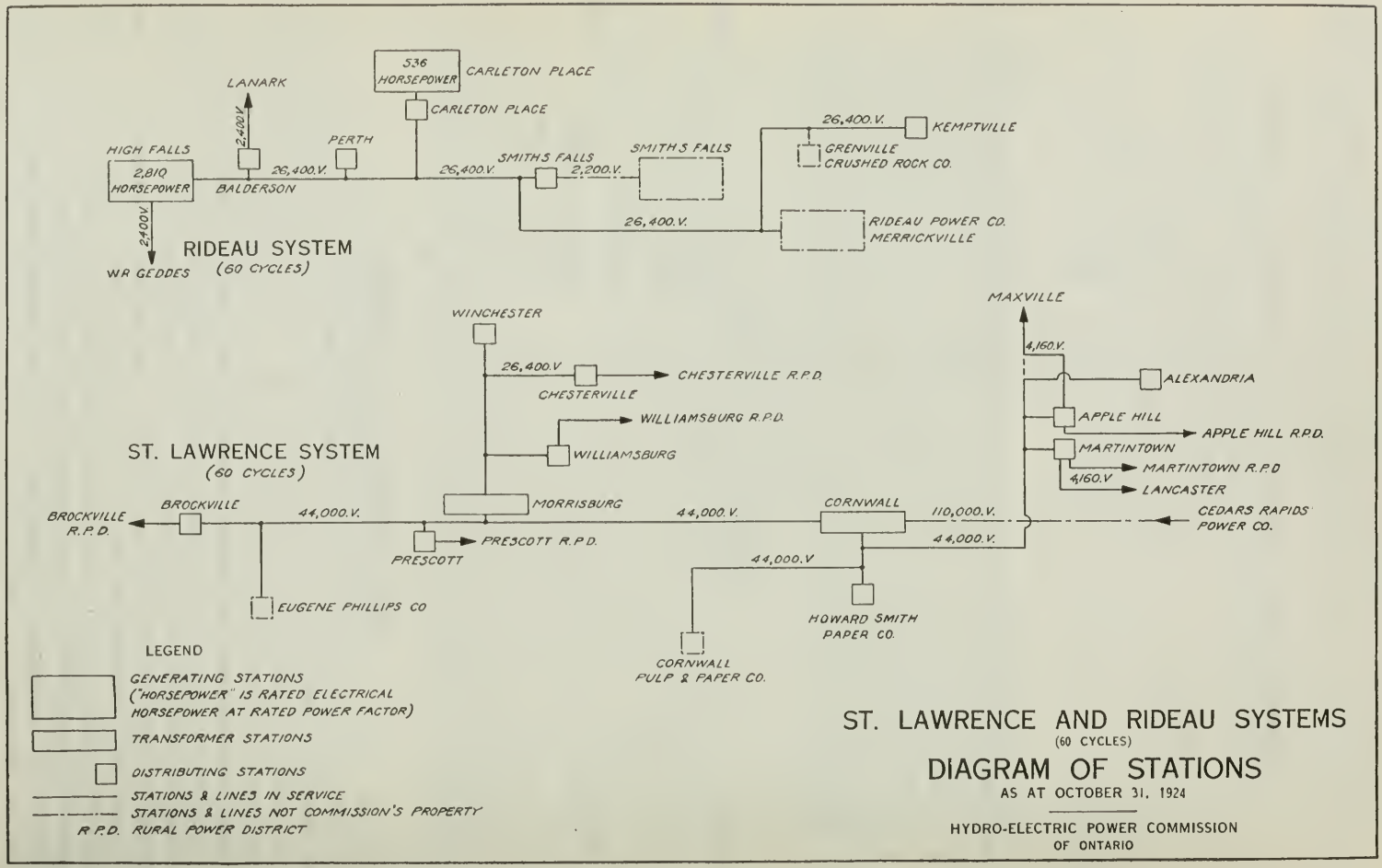
Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Gravenhurst	384.7	544.2	411.5	132.7	.....
Huntsville	921.0	896.7	966.5	.....	69.8



ST. LAWRENCE SYSTEM

The load on the St. Lawrence system was lighter than last year, due almost entirely to the shutting down of one large industrial customer. With this exception, operating conditions have changed very little, although it may be noted that on the whole the voltage and frequency of the power purchased for the system has been improved somewhat, as forecast in the Sixteenth Annual Report.

At the Howard Smith Paper Company substation, the No. 2, 750-kv-a., 44,000-volt transformer, transferred to this station from the Central Ontario system, has been replaced by a 1,500-kv-a. transformer, of exactly the same characteristics as the No. 1 1,500-kv-a. transformer. While operating this station with the 750-kv-a. transformer from the Central Ontario system in service, it was impossible to parallel the low-tension bus because of the difference in reactance between the two power transformers. This occasioned some inconvenience in grouping the outgoing, 600-volt feeders, so that the load would be satisfactorily


536 HORSEPOWER
CARLETON PLACE
CARLETON PLACE
LANARK
2400V.
HIGH FALLS
2,810 HORSEPOWER
BALDERSON
PERTH
26,400.V.
26,400.V.
SMITHS FALLS
2,200.V.
SMITHS FALLS
26,400.V.
KEMPTVILLE
GRENVILLE CRUSHED ROCK CO.
26,400.V.
RIDEAU POWER CO. MERRICKVILLE
2400V.
WR GEDDES
RIDEAU SYSTEM
(60 CYCLES)
WINCHESTER
26,400.V.
CHESTERVILLE
CHESTERVILLE R.P.D.
WILLIAMSBURG R.P.D.
WILLIAMSBURG
ST. LAWRENCE SYSTEM
(60 CYCLES)
MAXVILLE
4,160.V.
ALEXANDRIA
APPLE HILL
APPLE HILL R.P.D.
MARTINTOWN
MARTINTOWN R.P.D
4,160.V
LANCASTER
BROCKVILLE R.P.D.
BROCKVILLE
44,000.V.
MORRISBURG
44,000.V.
CORNWALL
110,000.V.
CEDARS RAPIDS POWER CO.
44,000.V.
PRESCOTT
PRESCOTT R.P.D.
44,000.V
EUGENE PHILLIPS CO
HOWARD SMITH PAPER CO.
CORNWALL PULP & PAPER CO.
LEGEND
GENERATING STATIONS
("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATIONS
DISTRIBUTING STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R.P.D. RURAL POWER DISTRICT
ST. LAWRENCE AND RIDEAU SYSTEMS
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1924
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

divided between the two transformers, and also in metering the total output of the station. This difficulty has now been entirely overcome, since the new 1,500-kv-a. transformer is similar in all respects to the original, 1,500-kv-a. transformer, and parallels with it perfectly. The low-tension bus is no longer split, and the station load is totalized on one set of current-transformers.

General operating conditions have been normal and very satisfactory, and the usual line maintenance work, including tree trimming, has been done.

ST. LAWRENCE SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Alexandria	183.0	187.6	207.7	.....	20.1
Apple Hill	24.0	21.4	24.6	.....	3.2
Brockville	1,233.2	1,277.6	1,170.9	106.7	.....
Chesterville	124.7	170.2	210.4	.....	40.2
Lancaster	24.0	26.8	24.3	2.5	.....
Martintown	12.4	13.6	15.0	.....	1.4
Maxville	34.8	58.9	46.9	12.0	.....
Prescott	147.4	264.0	322.8	.....	58.8
Williamsburg	18.0	22.0	27.0	.....	5.0
Winchester	110.0	102.0	121.3	.....	19.3

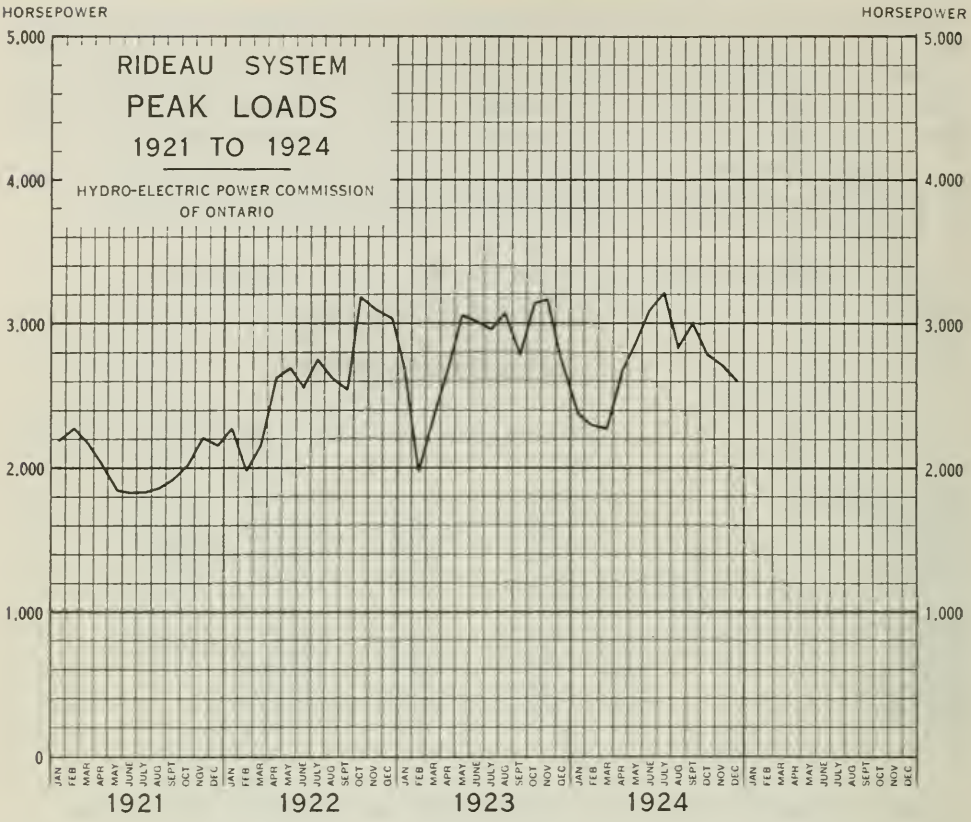
ST. LAWRENCE SYSTEM—RURAL POWER DISTRICT LOADS, 1923-1924

Rural power district	Peak load in horsepower		Change in load 1923-1924	
	Oct., 1923	Oct., 1924	Decrease	Increase
Brockville	34.0	49.4	.....	15.4
Chesterville	3.2	11.8	.....	8.6
Martintown	6.9	12.9	.....	6.0
Prescott	33.2	36.4	.....	3.2

RIDEAU SYSTEM

The Rideau system load has shown no material increase, which condition has been attributed to the quiet industrial conditions prevailing.

The water supply has been very plentiful, but unfortunately work has not been commenced on the proposed Mazinaw Lake dam, although a temporary dam at Mazinaw Lake, similar to the one which gave very good satisfaction during 1923, was again installed. For various reasons the Mississippi River Improvement Company has been unable to start work on the permanent dam, although it is expected that something will be done next year.



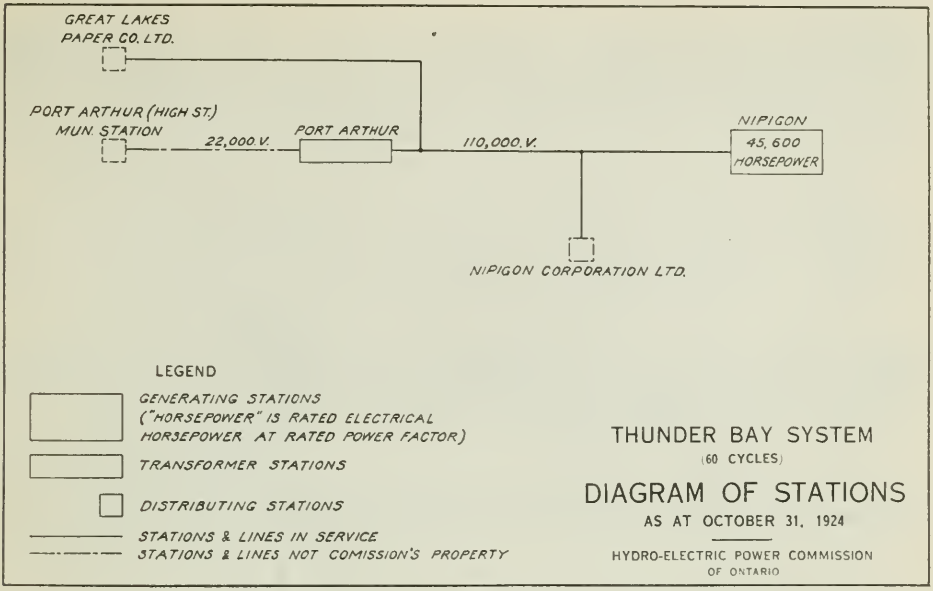
In order to compensate in a measure for the failure to construct the new Mazinaw dam, the Mississippi River Improvement Company has made arrangements to rebuild a number of small storage dams, notably at McKlintock, Buckshot, Mississagogan and Farm lakes.

The very favourable water conditions have enabled the system load to be carried without difficulty by the High Falls plant, supplemented by the power purchased from the Rideau Power Company at Merrickville.

Beyond some pole straightening in swampy ground on the line to Carleton Place, comparatively little line maintenance work has been necessary. Station maintenance has also been light.

RIDEAU SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Carleton Place	800.2	832.4	718.5	113.9	.....
Kemptville	128.7	93.8	142.0	.....	48.2
Lanark	35.5	33.5	35.6	.....	2.1
Perth	474.5	516.0	429.0	87.0	.....
Smith Falls	785.0	975.8	832.4	143.4	.....



THUNDER BAY SYSTEM

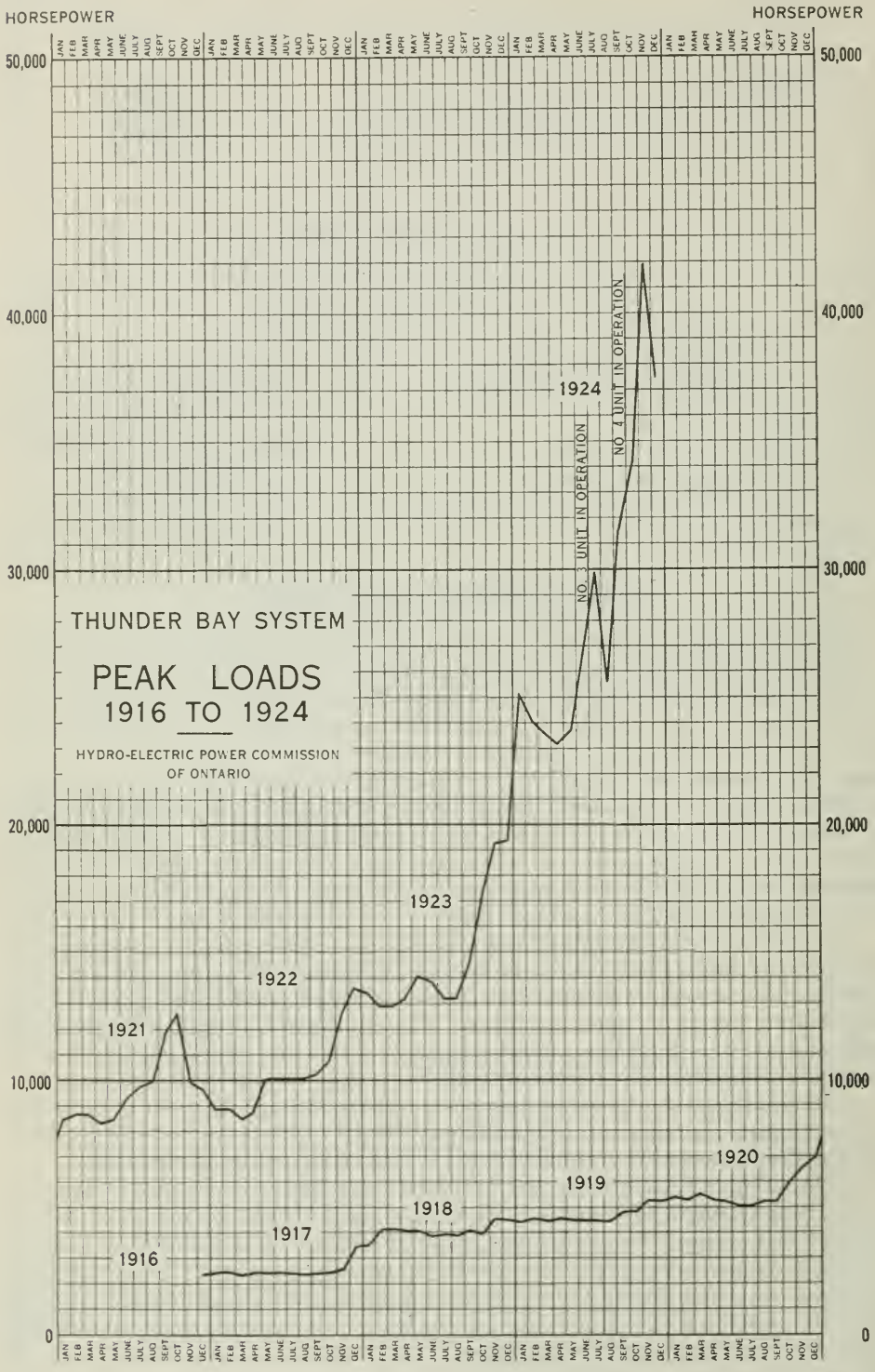
The Cameron Falls generating station has now completed its fourth year of operation, with a still steadily increasing load.

The general operating conditions have changed materially to take care of this increase in load and the addition of new customers. Two new generating units have been placed in commission during the past fiscal year, No. 3 going into operation on June 24, and No. 4 on September 27, each having a capacity of 12,500 horsepower. The original transmission line has been practically paralleled by a new circuit supported on steel towers, and an extension of fifteen miles of single circuit transmission line supported on steel towers, from the western terminus at Port Arthur to a new station south-west of Fort William, has also been placed in operation satisfactorily.

It is now found that while one machine at a time may be removed from service for short periods at certain hours of the night for cleaning, or for minor repairs, the normal day load, on account of heavy momentary fluctuations, requires the use of all four machines. The necessity of additional generating equipment at this station is already apparent, since any major repair operation on any machine may not be attempted.

All equipment at the generating station came through the year in good condition, though a couple of minor mishaps resulted in short system interruptions. All auxiliary equipment was maintained in first-class operating condition.

The original transmission line has given excellent service during the past year, though several interruptions were occasioned during the month of August by very bad storms. Since the placing of the second line in operation, the probability of trouble involving both lines simultaneously is remote. Some apprehension was again felt during the dry season regarding the danger from bush fires, but there was no really serious threat this year. The cutting of brush was also continued this year, and some progress was made in certain locations in the matter of clearing up the right-of-way.


HORSEPOWER
HORSEPOWER
50,000
40,000
30,000
20,000
10,000
0
THUNDER BAY SYSTEM
PEAK LOADS
1916 TO 1924
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO
1916
1917
1918
1919
1920
1921
1922
1923
1924
NO. 3 UNIT IN OPERATION
NO. 4 UNIT IN OPERATION
JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

The receiving station at Bare Point, Port Arthur, which was heavily overloaded, has been extended by the addition of a second similar bank of three 5,000 kv-a. units, located out-of-doors. No trouble has been experienced with any of the equipment at this point. The low-tension breaker equipment at this station has functioned quite properly in several cases of trouble on the 22,000-volt system.

The substation at the corner of High Street and Van Norman Street was only operated by us for about five months of this year, as it has been sold to the Public Utilities Commission of Port Arthur. During the period this station was under our care, the only trouble experienced was the failure of a 22,000-volt breaker in an outgoing line.

During the first six months of 1924, considerable assistance was given to the Kaministiquia Power Company by supplying power to its system at 22,000 volts, through the 22,000-volt lines of the Public Utilities Commission, from our station at Bare Point. Our system has thus been of considerable benefit to the municipality of Fort William.

The increase in load on this system, as shown in the curve appearing elsewhere in this Report, indicates a rate of growth, which is certainly not approached this year by any other of our systems.

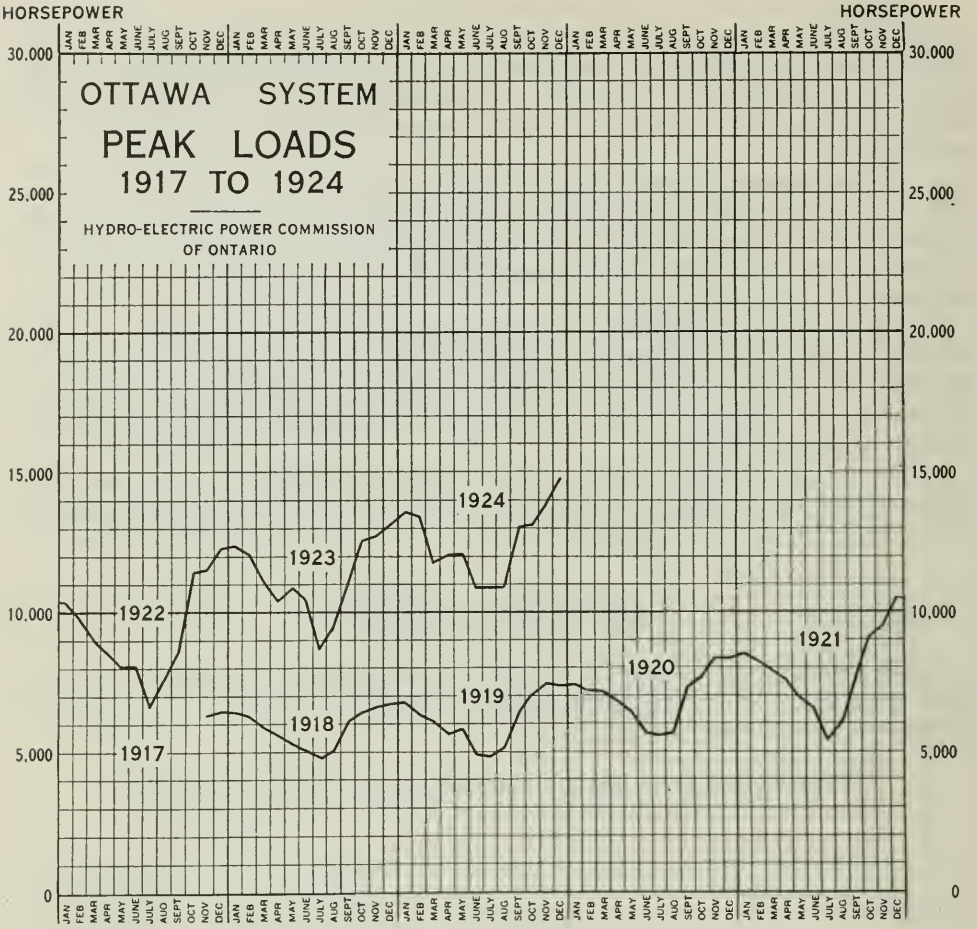
OTTAWA SYSTEM

The usual system load growth of the Ottawa system has been apparent this year, as in previous years. No operating difficulties have arisen, nor have any changes, which affect operation, occurred.

OTTAWA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

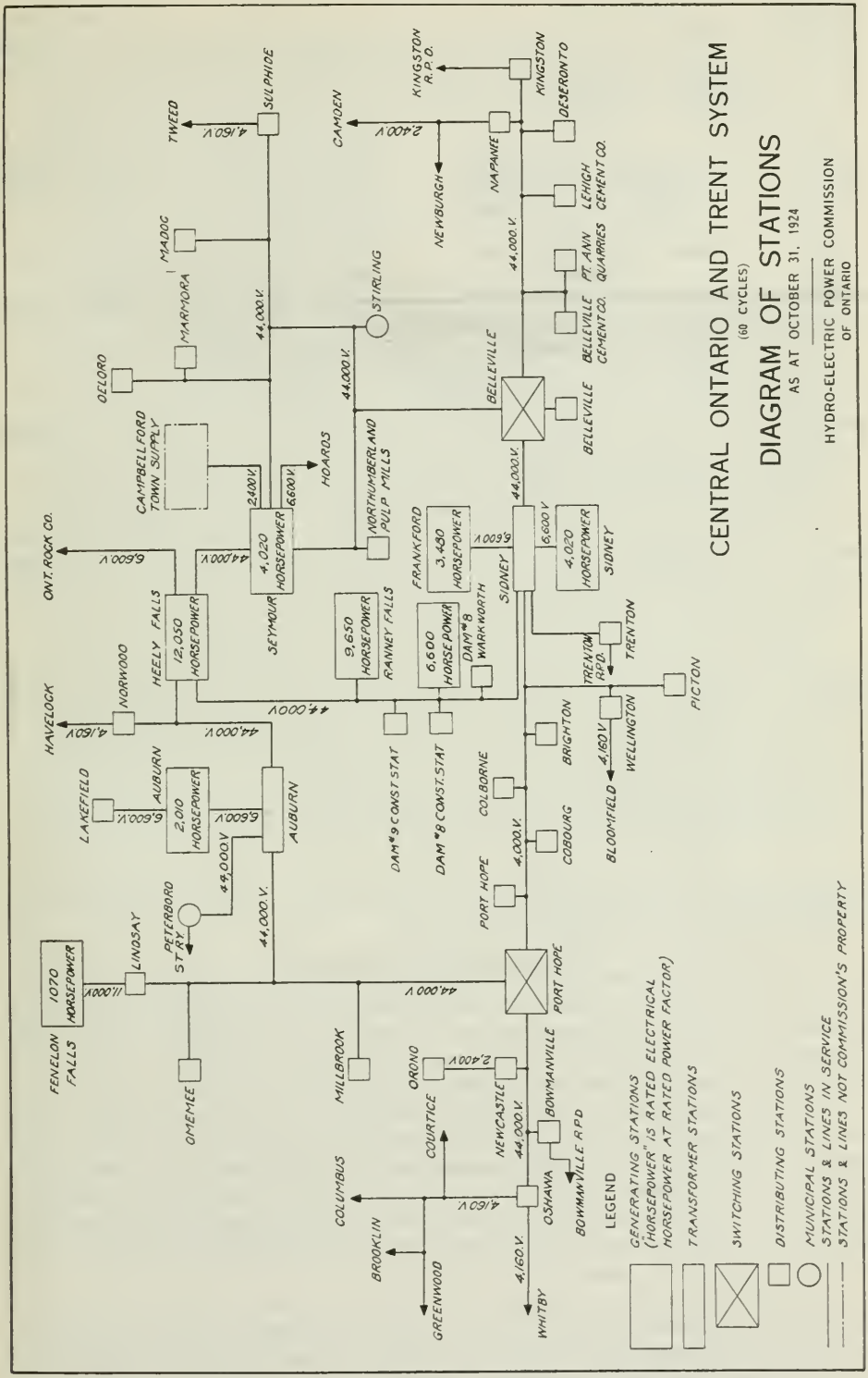
Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Ottawa	11,394	12,528	13,206	.....	678

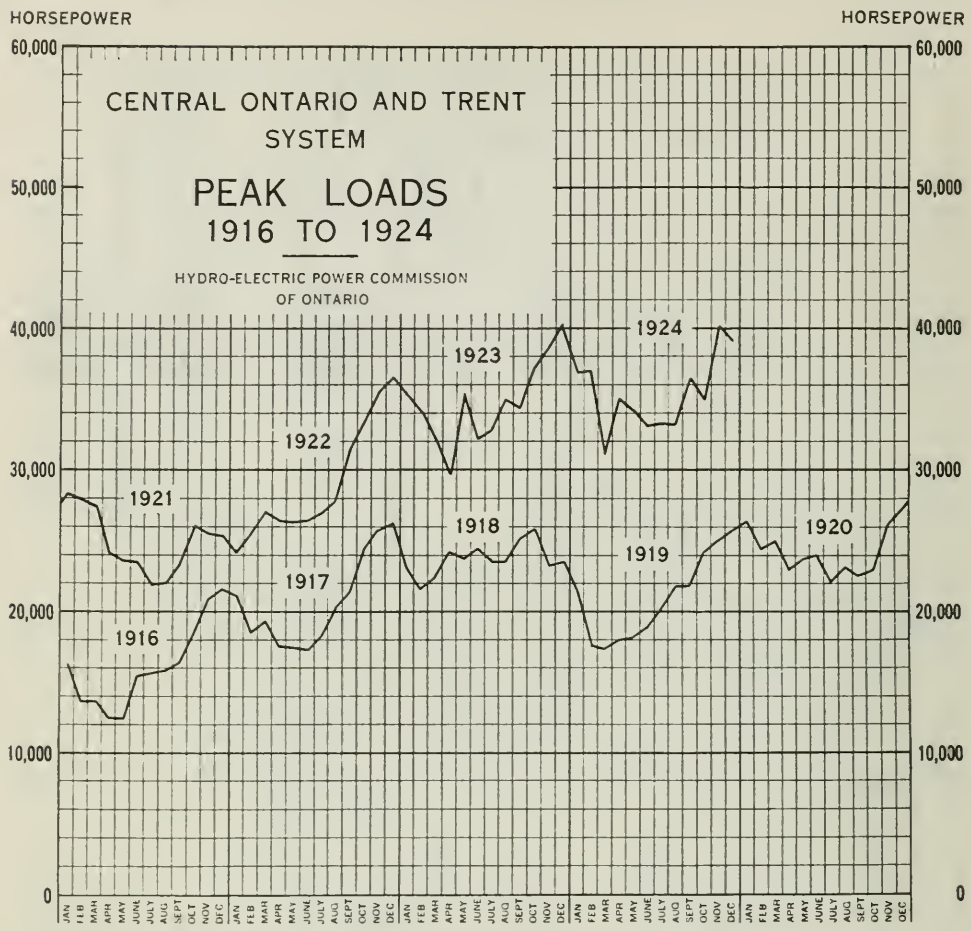
The peak load diagram for the Ottawa system will be found on the next page.



CENTRAL ONTARIO AND TRENT SYSTEM

Important generating stations and lines have been added to the Central Ontario and Trent system. The new automatic generating station at Dam No. 8, about six miles south of Campbellford, started to deliver power to the system on September 11. This three-unit station is equipped with relays which make its operation completely automatic if desired, but it is intended to operate normally under the control of the operator of the Ranney Falls plant, which is about four miles upstream, through the medium of remote supervisory control equipment not yet in operation. Pending the completion of the supervisory equipment, it is necessary to maintain operators at the station, although synchronizing the units in the ordinary way is unnecessary, in fact impossible, since manual synchronizing equipment has not been installed. By pressing a button, the operator can bring a unit on the line and have it delivering power in fifteen or twenty seconds. The generator switches close, bringing the generator on the line at approximately synchronous speed, with field short-circuited, but almost instantly afterwards the short-circuit is removed, the field switch is closed and the generator pulls into step. If desired, all three units may be started or stopped


CENTRAL ONTARIO AND TRENT SYSTEM
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1924
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
LEGEND
GENERATING STATIONS ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATIONS
SWITCHING STATIONS
DISTRIBUTING STATIONS
MUNICIPAL STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
FENELON FALLS
1070 HORSEPOWER
11,000 V
LINDSAY
PETERBORO STN'Y
44,000 V.
OMEMEE
LAKEFIELD
6,600 V
AUBURN
2,010 HORSEPOWER
6,600 V
AUBURN
44,000 V
HAVELOCK
4,160 V
NORWOOD
HEELY FALLS
12,050 HORSEPOWER
44,000 V
ONT. ROCK CO.
6,600 V
CAMPBELLFORD TOWN SUPPLY
2400 V
6600 V
4,020 HORSEPOWER
SEYMOUR
HOARDS
44,000 V.
MADOC
MARMORA
OELORO
SULPHIDE
4,160 V
TWEED
STIRLING
44,000 V.
MILLBROOK
ORONO
2,400 V
COURTICE
NEWCASTLE
44,000 V
BOWMANVILLE
BOWMANVILLE RPD
4,160 V.
OSHAWA
COLUMBUS
BROOKLIN
GREENWOOD
WHITBY
44,000 V
PORT HOPE
4,000 V.
PORT HOPE
COLBORNE
DAM #9 CONST STAT
DAM #8 CONST. STAT
9,650 HORSEPOWER
RANNEY FALLS
6,600 HORSEPOWER
DAM #8
WARKWORTH
NORTHUMBERLAND PULP MILLS
FRANKFORD
3,430 HORSEPOWER
6,600 V
SIDNEY
44,000 V
SIDNEY
4,020 HORSEPOWER
SIDNEY
BELLEVILLE
44,000 V.
BELLEVILLE
BELLEVILLE CEMENT CO.
PT. ANN QUARRIES
LEHIGH CEMENT CO.
NAPANEE
44,000 V.
NEWBURGH
2400 V
CAMDEN
KINGSTON R.P.D.
KINGSTON
DESERONTO
BRIGHTON
4,160 V
BLOOMFIELD
WELLINGTON
TRENTON RPD.
TRENTON
PICTON



simultaneously. Line-breakers are, of course, electrically-operated and will ultimately be controlled from Ranney Falls.

The extremely short interval required to bring generators on the line or shut them down—for the time of shutting down is actually less than that of starting—is a feature which is very useful and convenient in system operation, and will be extended by only a few seconds when operated by supervisory control from Ranney Falls. It may be added that the acquisition of the plant at Dam No. 8 materially reduced the purchased power in the autumn of 1924.

Another automatic plant, similar to the plant at Dam No. 8, is under construction at Dam No. 9, and this concentration of so much power in the neighbourhood of Campbellford has necessitated the construction of additional 44,000-volt lines to insure the delivery of this power to the system, and also to insure the uninterrupted flow of water from plant to plant, which would be seriously upset for a time if any one plant in the Campbellford chain were to be cut away from the system.

The relay operation throughout the system has been steadily increasing in importance, and has been given careful study, which has been facilitated by the use of the indicating flags on the relays so that information on the operation of each relay may be more accurately compiled.

The Peterboro municipal station, which was placed in service on April 26, 1924, must be mentioned among the new stations and lines. This new station supersedes the old Simcoe Street station owned and operated by the Commission, and relieves the Commission of any operating responsibility connected with the Peterboro substation. Furthermore, by arrangements with the Peterboro Utilities Commission, a new street railway unit has been installed in the new station to be operated by the Utilities Commission for the Hydro-Electric Power Commission, a mutually profitable arrangement. The municipal station is now fed at 44,000 volts over about three miles of line from the high-tension network at the Auburn switching station.

Governor troubles at the plants at Dam No. 2, and Dam No. 5, which ultimately led to excessive maintenance costs, have been overcome by the installation of a central pumping system in each plant. The governors at both plants are now giving excellent service with no sign whatever of excessive wear. The brakes for bringing the units to rest have also been installed as forecast last year.

The need of a graphic frequency meter, which would furnish a permanent and accurate record of the system frequency at all times has been felt for some time, but no meter, which would satisfactorily meet the requirements, was available. This difficulty has now been overcome through the construction of several of these meters in the Commission's meter shop at Niagara Falls, one of which has been installed in the system load despatcher's office at Belleville. It has assisted the load despatchers in directing the operation of the various generating stations, and it has also helped us to improve the regulation of the governors at certain plants.

The necessity for interrupting service to Picton, Wellington and Bloomfield, in order to do line work between the Sidney terminal station and the Picton tap has been obviated by installing an additional set of disconnecting switches at the Picton tap in the line towards the Sidney terminal station. These switches enable power to be fed to the Picton tap via the main loop from Port Hope.

The installation in the plant at Dam No. 11 of an instrument which indicates the level of Crow Bay through the medium of impulses received from a water level sender at Crow Bay, has been very useful to the system load despatchers in maintaining the proper distribution of load throughout the various generating stations.

Load and Water Conditions

Before describing the water conditions during 1924, a brief reference to the latter part of 1923 will be helpful. A complete description of 1923 conditions, with graphs similar to those reproduced here, will be found in last year's Annual Report, pages 40 to 45. Following a dry summer and early fall, the moderately good precipitation during November and December, 1923, relieved a situation which seemed rather unfavourable. This rainfall, coupled with moderate temperatures and a delayed freeze-up, gave ample opportunity for the ground to become thoroughly soaked, and started, early in December, a period of substantial surplus flow which continued without diminution until the 1924 spring freshet had subsided. Plate B1, graphs 2 and 3, will give some idea of this surplus when expressed in kilowatts, although both graphs are far off scale much of the time.

Plate A shows the 1924 precipitation expressed as a percentage of the normal. The low March precipitation had little effect since in any event it wastes in the violent freshet run-off. A good precipitation during April and May benefited

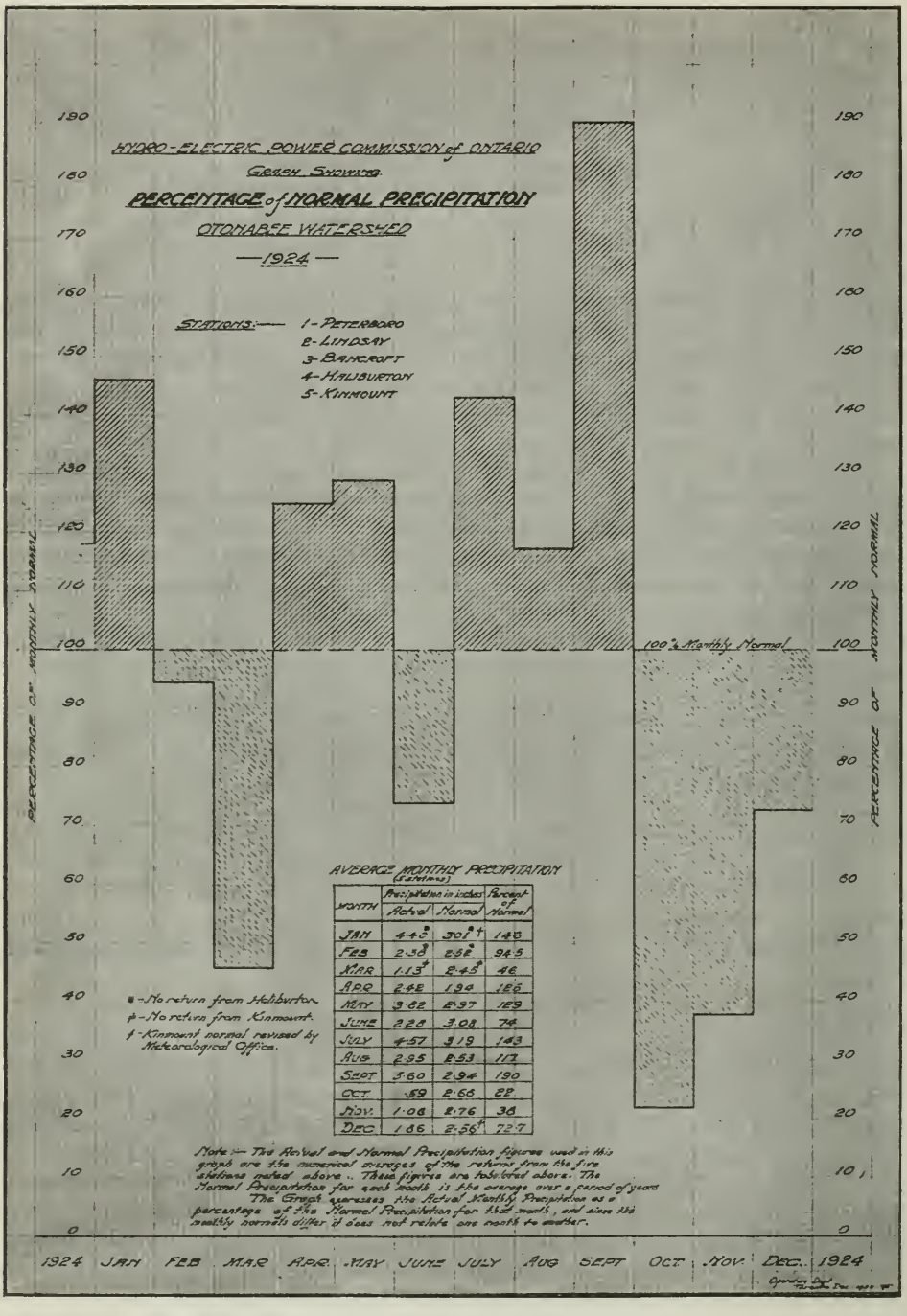

HYDRO-ELECTRIC POWER COMMISSION of ONTARIO
GRAPH SHOWING
PERCENTAGE of NORMAL PRECIPITATION
OTONABEE WATERSHED
—1924—
STATIONS:— 1-PETERBORO
2-LINDSAY
3-BANCROFT
4-HALIBURTON
5-KINMOUNT
PERCENTAGE OF MONTHLY NORMAL
100% Monthly Normal
AVERAGE MONTHLY PRECIPITATION (Estimated)
MONTH | Precipitation in inches | Percent of Normal
Actual | Normal
JAN 4.43* 3.01*+ 148
FEB 2.38* 2.52* 94.5
MAR 1.13* 2.45* 46
APR 2.42 1.94 126
MAY 3.62 2.37 153
JUNE 2.26 3.08 74
JULY 4.57 3.19 143
AUG 2.95 2.53 117
SEPT 5.60 2.94 190
OCT. .59 2.56 22
NOV. 1.06 2.76 38
DEC 1.86 2.56† 72.7
*-No return from Haliburton.
+-No return from Kinmount.
†-Kinmount normal revised by Meteorological Office.
Note:— The Actual and Normal Precipitation figures used in this graph are the numerical averages of the returns from the five stations noted above. These figures are tabulated above. The Normal Precipitation for each month is the average over a period of years. The Graph expresses the Actual Monthly Precipitation as a percentage of the Normal Precipitation for that month, and since the monthly normals differ it does not relate one month to another.
1924 JAN FEB MAR APR. MAY JUNE JULY AUG SEPT OCT. NOV. DEC. 1924

PLATE A—PRECIPITATION DATA

This graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal returns of the Meteorological Service for Peterboro, Lindsay, Bancroft, Haliburton and Kinmount. (See inset table.)

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent, hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

the year's water supply by saturating the ground and adding to the ground waters, although this was largely counteracted by the somewhat low June precipitation. The generous precipitation during the months of July, August and September is the feature of the year.

During these months evaporation and transpiration* losses are very heavy, and even with normal precipitation the demand upon storage is also heavy. There may be a tendency for very light and intermittent showers to evaporate away without materially benefiting water conditions, but, in general, a given amount of rain is really worth much more than it is during the spring months, for it effectively supplies the ground water loss due to evaporation and transpiration, and if it comes in sufficiently large quantities, it will certainly replenish the ground waters and storage reservoirs. Although a portion of the spring precipitation is stored in the form of ground water, it must be remembered that the ground surface is always more or less saturated in the spring, and that surface run-off into the reservoirs, which are already full, is rapid and causes considerable wastage. It may also be worth mentioning that under the existing level restrictions and method of regulating the Kawartha Lakes, a certain amount of wastage after a heavy summer rain is not unusual. This appears to be due to the fact that the combined increase in supply from that portion of the watershed, which drains directly into the Kawartha Lakes, and from the Gull and Burnt rivers, which constitutes the main source of supply, raises the Kawartha Lakes above their allotted limits before the supply from the Gull River is checked.

No doubt the fact that the flow during August and September was larger than usual during these months is attributable to the favourable summer conditions described. The October, November and December precipitation was very much below average, and, consequently, the draft on storage during this period was heavy. During November and December, the flow was reduced to the summer minimum, which means that it was considerably lower than the flow actually maintained during August, September and October, and was much lower than the flow normally required during November and December.

It will be noticed that the total precipitation from April to December, inclusive, does not materially exceed the average (it was, in fact, two per cent higher), although the individual months differ in a most striking manner. The fact that the supply through precipitation and ground water, taken over this important nine-month period, always fluctuates much less than shorter portions of the period, makes it possible to estimate fairly accurately the worst seasonal water conditions which are likely to occur during a reasonable period of years, and to formulate a plan of flow regulation based on such conditions.

The years 1923 and 1924 present a striking example of the advantage of such a method of regulation, and the unfortunate situations which may result from attaching insufficient importance to this dependable seasonal run-off. During 1923 the low precipitation from July to October, inclusive, naturally depleted storage resources. Such conditions frequently cause unnecessary anxiety about the maintenance of an adequate flow during the remainder of the season, and lead to a curtailment of flow and a consequent power shortage, even when the dependable run-off over the period of storage is quite adequate. In 1923 a condition of this kind threatened to become serious, but was averted as reported last year.

*Transpiration refers to the process by which green vegetation gives off water vapour. It is difficult to separate the loss due to transpiration from that due to ordinary surface evaporation although the two processes are quite distinct.

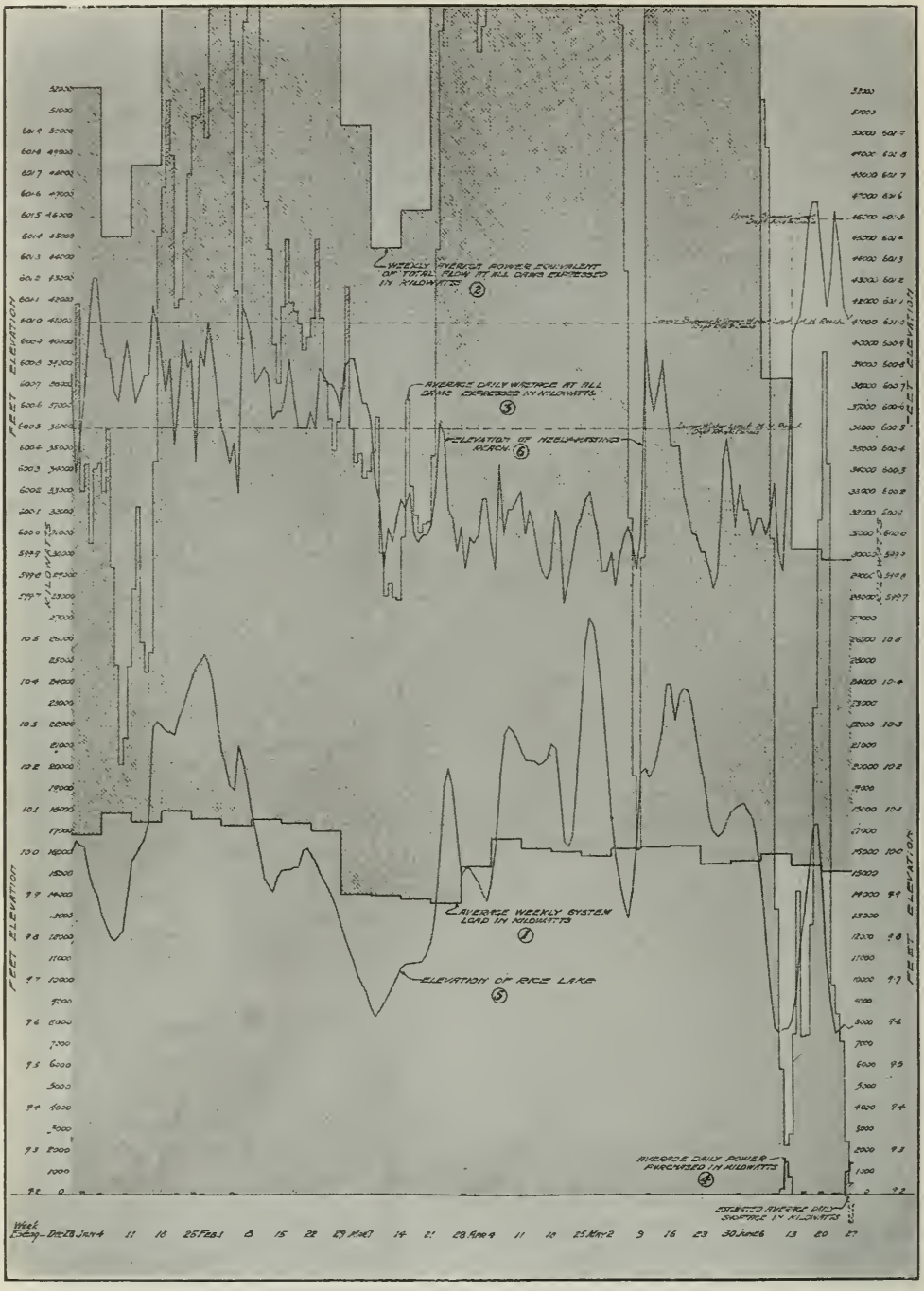

WEEKLY AVERAGE POWER EQUIVALENT OF TOTAL FLOW AT ALL DAMS EXPRESSED IN KILOWATTS (2)
AVERAGE DAILY WASTAGE AT ALL DAMS EXPRESSED IN KILOWATTS (3)
ELEVATION OF HEADWATERS AT DAM (6)
AVERAGE WEEKLY SYSTEM LOAD IN KILOWATTS (1)
ELEVATION OF RICE LAKE (5)
AVERAGE DAILY POWER PURCHASED IN KILOWATTS (4)
ESTIMATED AVERAGE DAILY SHORTAGE IN KILOWATTS
FEET ELEVATION
KILOWATTS
Week Ending—Dec 28 Jan 4 11 18 25 Feb 1 8 15 22 29 Mar 7 14 21 28 Apr 4 11 18 25 May 2 9 16 23 30 June 6 13 20 27

PLATE B1—GENERAL OPERATING DATA

December 28, 1923, to June 27, 1924

GRAPH No. 1—System average weekly load in kilowatts.

GRAPH No. 2—Weekly average power equivalent of total flow at all dams. This equals the weekly average system load plus the power equivalent of the weekly average wastage of water at all plants from which the Commission derives its regular supply. The wastage is shown by the dotted hatched area between graphs 2 and 1.

GRAPH No. 3—Average daily wastage at all plants expressed in kilowatts. In the weekly aggregate the area under this graph equals the wastage, represented by the hatched area between graphs 2 and 1 and shows the daily distribution on this weekly wastage.

(Description continued on opposite page)

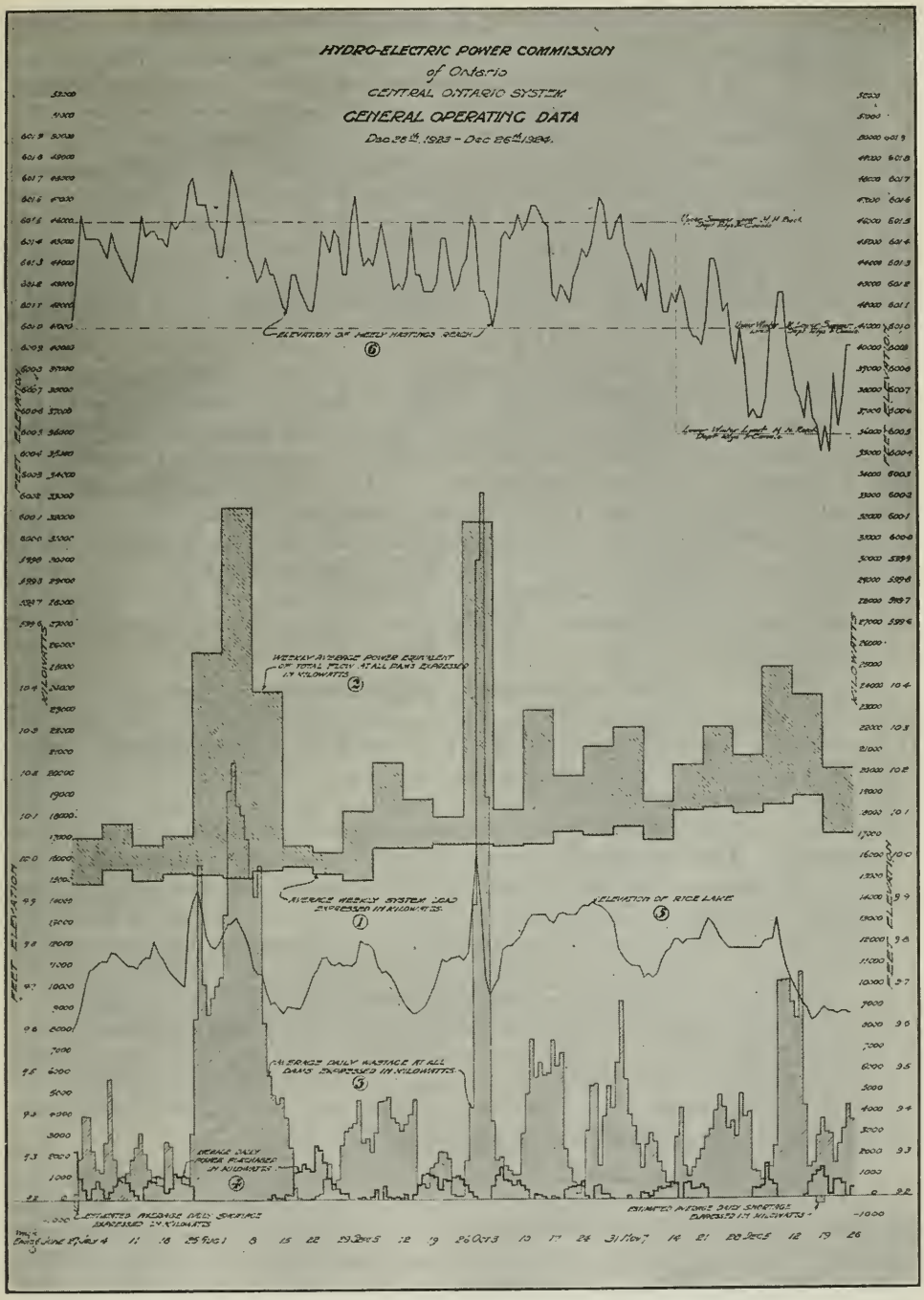

HYDRO-ELECTRIC POWER COMMISSION
of Ontario
CENTRAL ONTARIO SYSTEM
GENERAL OPERATING DATA
Dec. 26th. 1923 - Dec 26th 1924.
ELEVATION OF HEELY HASTINGS REACH
6
WEEKLY AVERAGE POWER EQUIVALENT OF TOTAL FLOW AT ALL DAMS EXPRESSED IN KILOWATTS
2
AVERAGE WEEKLY SYSTEM LOAD EXPRESSED IN KILOWATTS.
1
ELEVATION OF RICE LAKE
5
AVERAGE DAILY WASTAGE AT ALL DAMS EXPRESSED IN KILOWATTS
3
AVERAGE DAILY POWER PURCHASED IN KILOWATTS
4
ESTIMATED AVERAGE DAILY SURPLUS EXPRESSED IN KILOWATTS
ESTIMATED AVERAGE DAILY SHORTAGE EXPRESSED IN KILOWATTS
FEET ELEVATION
KILOWATTS
June 27 July 4 11 18 25 Aug 1 8 15 22 29 Sept 5 12 19 26 Oct 3 10 17 24 31 Nov 7 14 21 28 Dec 5 12 19 26

PLATE B2—GENERAL OPERATING DATA
June 27, 1924, to December 26, 1924
(Description continued)

GRAPH No. 4—Average daily power purchased in kilowatts.

GRAPH No. 5—Midnight elevation of Rice lake.

GRAPH No. 6—Midnight elevation of Heely-Hastings reach.

NOTE:—The hatched areas below the base line represent small power shortages.

On the other hand, generous precipitation, such as the 1924 precipitation from April to September, inclusive, and the consequent abundant available storage, might easily lead to an attempt to maintain too high a flow during these months, without due regard for the possibility of a reversal of conditions during the remaining months, which would more than offset the previous favourable conditions, and finally result in a run-off for the storage season very little better than the dependable minimum. The low precipitation during October, November and December, 1924, is an illustration of the danger of this, and the fact that, after an unusually high flow during August and September, the November and December flow was reduced to the summer minimum, notwithstanding the fact that the power output and consequent demand for water invariably increases at this time, illustrates the objectional results.

Because of the industrial depression and absence of system load growth, mentioned later, the November and December flow was sufficient for power requirements, and, therefore, the Commission was not inconvenienced by the economy effected by the flow reduction, although under ordinary circumstances such a low flow at this time would have created a very serious power shortage. The point to observe is that there is considerable risk attached to any attempt to maintain a flow during the storage season materially in excess of the dependable minimum, even though the conditions at the time seem favourable. It is, however, obvious that toward the latter part of the storage period the amount of water on hand might be sufficient to guarantee an increase over the safe established regimen.

It is worth noting that a difficult period for the power interests on the Trent River, sometimes referred to as the cut-off period, often occurs just at the close of the freshet. The sudden cut-off of the freshet flow, and the readjustment of levels which follows it, coupled with the fact that as a rule, the dams are not tight after a heavy surplus, frequently leads to a temporary reduction of the stream flow actually available for power purposes below the normal power requirements. This very condition occurred at the close of the 1924 freshet, and the load reductions on the 26, 27, and 28 of June, which resulted, are shown by the hatched areas below the base line at the end of plate B1 and at the beginning of plate B2. A shortage of this nature is usually of short duration and not particularly severe. Graph No. 1, average weekly system load, will bear out the fact that there was no abnormality of load during this period, and graph No. 5, elevation of Rice Lake, indicates that the lake level had reached a minimum just at the close of the freshet. Transitory conditions at Crow Bay and Percy Reach, which are not shown on these graphs, contributed in a small way towards this shortage. The Commission has reason to hope that shortages due to cut-off regulation will not be of frequent occurrence in the future.

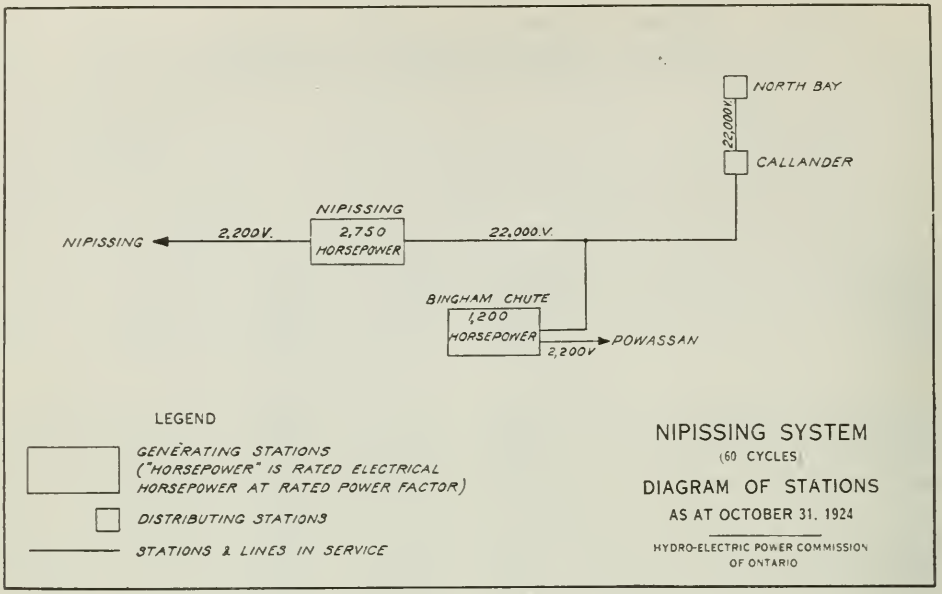
The quiet industrial conditions seem to have been more pronounced, and to have prevailed for a longer period on the Central Ontario than on many of the other systems. The load increases of the earlier months of the fiscal year afforded every promise of a normal increase throughout. Consequently the industrial depression is held responsible for the fact that no increase during those months of the fiscal year which were dependent upon 1924 storage could be noticed. Even with the plant at Dam No. 8 in operation, had the expected fall load materialized, the Commission would have required a flow much greater than was available. Under such circumstances, it is a matter of conjecture what the flow regulation would have been.

CENTRAL ONTARIO AND TRENT SYSTEM
LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Belleville	2,624.8	2,868.6	2,658.1	210.5	.....
Bloomfield	35.0	71.8	87.5	.....	15.7
Bowmanville	1,285.0	1,156.8	1,128.7	28.1	.....
Brighton	174.2	175.8	171.6	4.2	.....
Cobourg	1,059.0	1,160.8	986.6	174.2	.....
Colborne	126.5	109.2	109.6	.....	0.4
Deseronto	287.0	312.3	301.6	10.7	.....
Havelock	69.8	72.3	123.3	.....	51.0
Kingston	2,547.0	3,178.4	2,937.6	240.8	.....
Lakefield	85.0	138.0	88.0	50.0	.....
Lindsay	1,260.0	1,282.8	1,187.6	95.2	.....
Madoc	152.0	184.4	178.8	5.6	.....
Marmora	49.4	50.6	57.9	.....	7.3
Milbrook	36.4	36.4	55.7	.....	19.3
Napanee	576.4	604.5	679.6	.....	75.1
Newburg	160.8	490.6	209.1	281.5	.....
Newcastle	59.0	61.8	66.9	.....	5.1
Norwood	101.3	86.8	69.4	17.4	.....
Omemee	58.0	119.5	123.4	.....	3.9
Orono	40.0	41.2	44.6	.....	3.4
Oshawa	3,850.0	4,933.6	4,939.8	.....	6.2
Peterboro	4,306.2	5,839.3	4,837.8	1,001.5	.....
Picton	326.0	382.0	410.2	.....	28.2
Port Hope	608.0	782.8	833.8	.....	51.0
Stirling	135.3	157.7	168.9	.....	11.2
Trenton	823.0	865.9	914.2	.....	48.3
Tweed	144.7	148.7	136.7	12.0	.....
Wellington	74.0	73.7	96.5	.....	22.8
Whitby	583.0	666.2	682.3	.....	16.1

CENTRAL ONTARIO AND TRENT SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Warkworth	Oct., 1923	30.4	40.8	.....	10.4



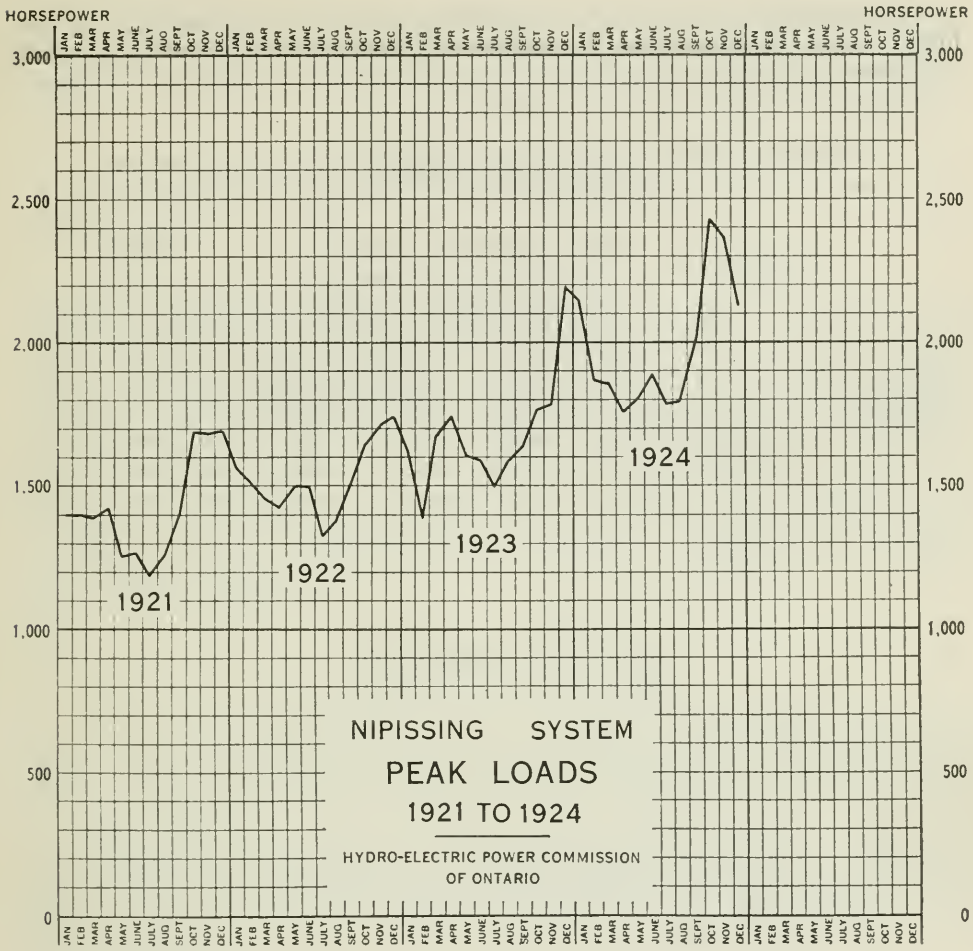
NIPISSING SYSTEM

The power shortage on the Nipissing system was relieved when the first unit of 600 horsepower capacity was placed in operation at the new Bingham Chute power house on December 3, 1924. The second unit of similar capacity was placed in operation on March 31. Work on these units was pushed forward as rapidly as possible to get them into service before the demand for power exceeded the possible output of the Nipissing power house. Such details of construction as could be carried out with the units in operation were left for completion later.

At Nipissing power house, the capacity of No. 4 unit was increased by remodelling the turbine and installing a generator of 1,250 kv-a. capacity, direct driven from the turbine, in place of the former 450 kv-a. generator. These changes were completed and No. 4 unit put back into service by May 9. The full advantage of this change, as far as total station capacity is concerned, has not yet been obtained due to the old pipe line having insufficient water conveying capacity to supply both units at full load. The wood-stave pipe line at this plant has about reached the end of its useful life, requiring considerable maintenance. A new wood-stave pipe line of larger capacity is under construction, and is expected to be available for operation some time in November, 1924, which will give more advantage from the increased generator and turbine capacity.

At North Bay the erection of a Diesel oil engine, with generator and switchboard, was completed and turned over to the operating department. This unit was intended as a standby for emergency use only, and fortunately it has not been necessary to use it. The generator, separated from the Diesel engine, has been operated as a synchronous condenser, relieving the transmission line of considerable wattless current, and improving power factor and voltage regulation in North Bay.

The increased generating capacity, as described above, has made it possible for the system to meet all demands for power, but the increase in generating



capacity has been accompanied by a large increase in load, the demand for power in October being 37 per cent above the demand in October, 1923. The margin of generating capacity over power demand has been reduced by this growth of load to a point where it is again difficult to take even one generator out of service during peak-load hours.

Several men were kept employed during the year on the water storage system, regulating the storage in, or the supply of water from, the back lakes contributary to the South River. During the year extensive maintenance work was carried out on the dams at Craig Lake and Braie Lake. At Clear Lake the dam, which had been undermined by the water, was rebuilt.

The transmission line was regularly patrolled during the year, and any defective insulators, crossarms, or poles were replaced.

At Powassan the transformer station, stepping down from 22,000 volts to 2,200 volts, was taken out of service and dismantled. A 2,200-volt feeder was extended from the Powassan distribution system back to the Bingham Chute power house, which is only half a mile distant. This gives Powassan a direct supply from the generating station.

At Callander the 22,000-volt, step-down transformer station was remodelled.

The line entrance was rearranged and lightning arresters were installed. The old, high-tension fuse equipment and power transformers were replaced by newer equipment taken from the dismantled Powassan substation, and the low-tension switchboard was altered and the building repaired.

NIPISSING SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Callander	80.0	90.0	60.0	30.0	.....
Nipissing	3.0	3.0	3.0	.....	.....
North Bay	1,523.0	1,479.0	2,119.0	.....	640.0
Powassan	80.0	106.0	103.0	3.0	.....

SECTION III

MUNICIPAL WORK

The Commission acts in an advisory capacity in connection with the operation of the various municipal Hydro Utilities with which it has contracts. In this connection, the Commission arranges for the purchase or construction of distribution systems and assists the municipal officials in making their financial arrangements to pay for the cost of same. The Commission also recommends all necessary rate adjustments, as provided under the Power Commission Act, and generally supervises the management and operation of all systems, more especially in the smaller municipalities, which are not of sufficient size to employ a manager with the technical knowledge necessary to handle properly all phases of the system's operation.

NIAGARA SYSTEM

The load on the Niagara system increased very considerably during the year, in spite of the fact that the industrial conditions were considerably below normal. The demand for power supply for domestic use was very noticeable.

During the year seven new urban municipalities and fourteen townships were supplied and in addition six townships signed contracts for a supply of power. The generating capacity at the Queenston plant was increased by one unit during the year, and a second unit will be ready for operation early in the coming year.

General engineering assistance in connection with the operation of, and extensions to, local Hydro systems was given to the following municipalities: Acton, Agincourt, Ailsa Craig, Ancaster Township, Barton Township, Beachville, Brantford, Brantford Township, Burford, Caledonia, Chippawa, Clinton, Dashwood, Delaware, Dorchester, Drayton, Drumbo, Dublin, Dundas, Dunnville, Dutton, Elmira, Elora, Embro, Exeter, Fergus, Georgetown, Grantham Township, Granton, Guelph, Hagersville, Hamilton, Hensall, Hespeler, Ingersoll, Jarvis, Lambeth, Listowel, Lucan, Lynden, Merritton, Milverton, Mimico, Mitchell, Moorefield, Mount Brydges, New Hamburg, New Toronto, Niagara Falls, Niagara-on-the-Lake, Norwich, Palmerston, Paris, Parkhill, Plattsville, Port Colborne, Port Credit, Port Dalhousie, Port Dover, Preston, Princeton, Queenston, Rockwood, Rodney, St. Catharines, St. Marys, Seaforth, Simcoe, Stamford Township, Strathroy, Stouffville, Tavistock, Thamesford, Thorndale, Thorold, Waterdown, Waterford, Waterloo, Welland, West Lorne, Weston, Woodbridge, Zurich.

Certain municipalities, in addition to receiving general engineering assistance in connection with the operation of the local Hydro systems, received also

special engineering advice and assistance with respect to a number of matters, which are more fully referred to as follows:

Aylmer—To take care of a proportionately heavy electrical-appliance load, primary extensions and additional transformer capacity were recommended to the local commission.

Baden—The distribution system was partly rebuilt, the work consisting chiefly in increasing the size of the secondary conductor to accommodate increased domestic loads.

Barton Township—Previous to March 1, 1924, the Barton Township distribution system was operated and managed by officials of the Hamilton Hydro-Electric System. On that date the Barton Township Hydro-Electric Commission assumed operation of its plant and has segregated its system from the Hamilton Hydro-Electric System. The power supply is at present obtained from the city of Hamilton.

Blyth—The municipality passed enabling and money by-laws in 1923 for a supply of power from the Commission and for the building of a local distribution system. Before any money was expended, contracts carrying a minimum bill were obtained from a sufficient number of customers to ensure the financial success of the undertaking.

Brampton—Owing to increased load it became necessary to add to the transformer capacity of the station, and a set of transformers duplicating the original and thereby doubling the capacity of the station was purchased and installed.

Brussels—This municipality passed enabling and money by-laws in 1923 and received power from Walton station about the beginning of August, 1924. Both Blyth and Brussels are served by the 4,000-volt lines from the Walton station, which in turn receives current from the 26,400-volt line from Seaforth Junction.

Caledonia—The distribution system was completely remodelled during the year, a considerable increase in secondary copper and transformers having been made necessary by the more extensive use of electric ranges and an increase in the number of domestic consumers.

Cayuga—During the year this municipality voted on, and carried by a large majority, enabling and money by-laws, and has entered into a contract with the Commission for a supply of power. On a request from the municipality the Commission has constructed a complete distribution system, which commenced operation at the end of October.

Clifford—In accordance with the contract between the village of Clifford and the Hydro-Electric Power Commission, the 4,000-volt line was extended from the Harriston substation to this village and a distribution system was built in the village. Power was turned on in July, 1924, the initial load being approximately 30 horsepower.

Courtright—A new street-lighting and distribution system was constructed by the Commission's construction department and put into service. The single-phase, 2,200-volt line being constructed by the Commission was completed from the former end of the line, in Corunna, to Courtright.

East York Township—At the request of the municipality, a valuation was made of the portion of the York Township system lying in East York, and estimates were submitted to the township covering the alterations necessary to provide for the purchase of power by the township at two points, so that the East York Township system might be operated as a separate unit.

Erieau Village—By-laws were passed, a new distribution system constructed, and power was turned on in this system in July, 1924.

A 2,200-volt, single-phase line was constructed by the Commission from the Blenheim distributing station to Erieau. This line supplies the village of Erieau as well as rural consumers in the Blenheim rural power district.

Essex—By-laws were passed with substantial majorities, and the distribution system in Essex purchased by the town from the Hydro-Electric Power Commission of Ontario.

The distribution system was remodelled and its voltage changed from 2,200 to 4,000 volts; also the motor-control system was completed, whereby two motors pumping water from deep wells one mile from the main pumping-station are controlled from the pumping station.

Etobicoke Township—The capacity of main feeders was increased, and the distribution system was extended. A new office building was completed at about the end of the fiscal year.

Forest Hill Village—A valuation of the distribution system lying in the village was submitted to the council, together with estimates of the cost of alterations to the system necessary to provide for the purchase of power at one point, so that the municipality might operate its own system as a distinct unit.

Galt—A number of recommendations have been made by the Commission's engineers in connection with the distribution system in Galt and preparations are nearly complete for the change over from the 2,200-volt to the 4,000-volt system. It is expected that better service will be given when this change is completed.

Goderich—The load in Goderich has materially increased during the year, due chiefly to the additional load taken by the grain elevators.

Grantham Township—On November 1, the Corporation of Grantham township formally transferred its complete distribution system to the Hydro-Electric Power Commission for the purpose of incorporating it in a rural power district. This system is now known as the Grantham rural power district and will in future be operated by the Commission.

Hagersville—Preparations are being made to convert the distribution system from 2,200-volt delta to 4,000-volt star for the purpose of effecting economies in the distribution over the local primary lines. The change was made necessary by the increase in the power requirements of the three large quarries situated in the town.

Harriston—Under instructions from the Commission's engineers, the distribution system in the town of Harriston has been gradually changed, to enable the local Commission to supply better service to its consumers.

Harrow—By-laws were passed and the distribution system in Harrow was purchased by the municipality from the Hydro-Electric Power Commission of Ontario, the police village assuming operation on its own behalf on July 1, 1924.

Hensall—A 40-horsepower extension to serve a sawmill was constructed.

Humberstone—During the year this municipality voted on, and carried by a large majority, enabling and money by-laws, and has entered into a contract with the Commission for a supply of power. Upon a request from the municipality, the Commission sold to it the complete distribution system within the municipality, which was formerly operated by the Ontario Power Company.

Jarvis—Early in the year the Jarvis Hydro-Electric system commenced operation and in addition to the usual domestic and commercial requirements in the municipality is at present serving three important power consumers.

Kingsville—By-laws were passed by substantial majorities and the distribution system was purchased by the municipality from the Hydro-Electric Power Commission of Ontario. Operation was assumed by the town on April 1, 1924.

Kitchener—The proposed change of primary distribution voltage from 2,200 to 4,000 volts was dealt with. The Kitchener load has increased rapidly and considerable work has thus been necessitated in connection with the distribution system.

Leamington—By-laws were passed by substantial majorities and the distribution system purchased by the municipality from the Hydro-Electric Power Commission of Ontario. The town commenced operation of its system on July 1, 1924.

The local office of the Hydro-Electric Power Commission, formerly in Leamington, was moved to Windsor.

London Township—Voted Area—The districts of Broughdale, Oxford Park and Kensington, lying to the immediate north and north-west of the city of London, were originally supplied with 2,200-volt delta power through the London Public Utilities Commission, after the London Electric Company removed its equipment.

Estimates were prepared and submitted to London township showing the cost of remodelling the local system to enable it to receive electric current from the Commission's Broughdale substation by means of a 4,000-volt, 3-phase, 4-wire, grounded star feeder.

Due to the increased use of electric current in the voted area, it was necessary that several primary extensions, additional 110-220-volt, secondary-distribution-system capacity, and lighting-transformer capacity be installed to give the consumers good service.

Similarly estimates were prepared showing the cost of changing the street lighting from the series system to the multiple system, and extending the installation to light all the streets in the voted area. This work was started in the field during the latter part of the year.

Milton—Station transformers duplicating the previous equipment were purchased and installed. The new equipment was connected to furnish 4,000 volts to supply the distribution system within the municipality as well as a line feeding the more remote power customers west of the town, the original

transformers being retained to furnish service to the larger power users having 2,200-volt motors.

North York Township—During the year arrangements were completed covering the purchase by the township of the portions of all distribution systems lying in the township, including portions of the distribution systems of the Toronto & York radial railway, the Toronto Suburban railway, and York township, and also the system near Weston owned partly by the latter municipality and by the Hydro-Electric Power Commission. These were incorporated into two main systems known as North York distribution system, areas Number One and Number Two, respectively. Arrangements were made providing for the operation by the town of Weston and by the Toronto Hydro-Electric System of the sections bordering the respective municipalities, the township Hydro Commission operating that portion of Area Number One lying north of the city. Numerous extensions in the township were also made.

Plattsville—An important load was added to the system early in the year in the location formerly occupied by Flour Milling Company's plant, destroyed by fire several years ago.

Point Edward—A by-law-in-Council for raising $10,000 was approved by the Hydro-Electric Power Commission and the Ontario Railway and Municipal Board for necessary extensions to the system to take care of additional consumers and the operation of about fifty electric ranges.

The town purchased the 4,000-volt feeder from the Sarnia substation to Point Edward and took over the supplying of service to a large power consumer, formerly served by the Sarnia Hydro-Electric System.

Port Colborne—The rapid growth of this system has made it necessary to obtain increased office accommodation, and also has necessitated a large number of extensions to the distribution system. The Commission has approved a $35,000 debenture issue for the purpose of constructing a new office and making the necessary extensions to the distributing system.

St. Jacobs—Changes were necessary in this system to accommodate the additional power required for the mill. The municipal system is supplied from an outdoor-type transformer, which is also used for the supply of the St. Jacobs rural power district. During the year it was found necessary to increase the capacity of this transformer station.

St. Thomas—It was found necessary during the year for St. Thomas to place an order for a fourth 750-kv-a., 13,200/2,300-volt, 3-phase transformer with suitable switching apparatus, for the main substation.

It has also been found necessary to extend and increase the capacity of the distribution system to take care of the increased use of current for electrical appliances.

Sandwich—Following the passing of by-laws by large majorities, the distribution system was purchased by the town from the Hydro-Electric Power Commission of Ontario and the Windsor Hydro-Electric system, and the town commenced operation on its own behalf on February 1, 1924.

The Hydro-Electric Power Commission constructed a 26,000-volt line one and one-quarter miles in length, and commenced the building of a distribution station in the town of Sandwich to supply the town of Sandwich and the Sandwich rural power district, and later on the town of La Salle.

Sarnia—To take care of the increasing load in the city of Sarnia for industrial purposes and also domestic users, approval was obtained for the issuing of debentures by the city of Sarnia to the amount of $40,000, and construction work on a new substation in the southerly part of the city was commenced.

Scarboro Township—The township purchased the distribution system within its boundaries previously owned by the Toronto Hydro-Electric system and incorporated these sections into the township system, thereby completing the taking over by the township of all distribution lines in Area Number One of Scarboro township. The capacity of the system was also increased and the lines were extended.

Simcoe—Preparations are now being made to make a considerable number of extensions to the distribution system necessitated by a large increase in domestic and power requirements. This has been partly brought about by curtailed natural gas service during the winter months.

Springfield—Estimates were prepared showing the cost of extensions to serve two power consumers with 55 horsepower, and also of remodelling the local system to permit receiving electric current over a 4,000-volt, 3-phase, 4-wire, grounded star feeder from the Commission's Aylmer substation.

At the present time this municipality is served over a 2,200-volt delta feeder from the Tillsonburg substation.

Stratford—The municipality changed the voltage of its distribution system from 2,200 to 4,000 volts. This change was deemed necessary on account of the additional load in the municipality.

Tilbury—Due to the increase in load of the industrial plants in Tilbury and also on account of the increase in the domestic load, it is necessary for the Commission to install three 75-kv-a. outdoor-type transformers in addition to the three 100-kv-a. units already installed in the substation building.

Tillsonburg—The capacity of the lighting distribution system was increased to handle the increase in domestic load.

Toronto Township—Arrangements were made for the installation of an extensive street-lighting system, principally on Dundas street from Cooksville east, on Centre road between Dundas street and Lake Shore road and along Lake Shore road between Clarksons and the easterly township limits, the greater portion of the construction being installed during the year.

Welland—On March 1, the Commission acquired from the Welland Electric Company, Limited, its complete distribution system located in the city of Welland, the village of Fonthill, the police village of Fenwick and the townships of Pelham, Thorold and Crowland. The city of Welland has acquired that part within its boundaries, and the portion outside the city has been in the Welland rural power district, with the exception of the lines within the village of Fonthill. A debenture issue of $75,000 to enable Welland to purchase the system within the city, and to convert to 25-cycle operation, and to change the inductive equipment was approved by the Commission.

Wellesley—The capacity of the local distribution system was increased.

West Lorne—A contract was secured for the local system with a milling company, and specifications were prepared for an extension to serve the mill with 550-volt, 3-phase power.

York Township—Approval was secured for additional debenture issues to cover the cost of numerous extensions. Arrangements were completed for the purchase of the portion of the distribution system of the Toronto Suburban railway lying within the municipality. Estimates were also secured and submitted to Council covering the cost of construction necessary to separate the system within the municipality from those of the surrounding districts.

Zurich—Extensions and improvements were made to take care of an increased domestic load.

NIAGARA SYSTEM—RURAL*

Amherstburg Rural Power District—Approximately two miles of line were completed north of the town of Amherstburg to supply consumers from the River road in Anderdon township, and four miles of line completed to the south of Amherstburg to supply rural consumers in Malden township. Special metering equipment was installed in the Amherstburg distributing station to measure the load of the rural power district separately from the load in the town.

Aylmer Rural Power District—Work instructions were issued covering the construction of a 4,000-volt low-tension line from Aylmer to Springfield, along which about eighteen rural contracts have been obtained.

Barton Rural Power District—Approximately five miles of line were constructed to give service to forty-eight consumers, and approval has been given for an additional three miles, which should be in service early in the year.

Beamsville Rural Power District—Approximately fifty consumers were added during the year, including four important power consumers connected with the canning industry. An application has been made by the police village of Jordan for a street-lighting installation. This will be constructed early in the year.

Blenheim Rural Power District—Approximately five miles of line were constructed and put in operation to supply farmers in Harwich township, west of Blenheim, and consumers in the hamlet of Cedar Springs. This line is supplied from the Commission's distributing station at Blenheim.

Bolton Rural Power District—This district was organised, and a line to supply a number of consumers was constructed.

Bond Lake Rural Power District—Construction between Richmond Hill and Aurora, formerly owned by Toronto and York Radial Railways, supplying 110 consumers, was taken into this rural power district on March 1, and an extension was built to Schomberg, to supply eighty-five consumers and thirty street lights, and to King City to supply forty-five consumers and nineteen street lights.

Brant Rural Power District—During the year two miles of line were constructed to give service to six farm consumers.

Chatham Rural Power District—The construction of approximately six miles of line extension was commenced, to supply additional consumers in

* See statement relating to Rural work at the end of this section, pages 66 to 69.

the district and also to provide service for the county of Kent at the bascule bridge over the Thames river at Prairie Siding.

Delaware Rural Power District—During the year a number of consumers have been added to this district, and the load shows a steady growth.

Work instructions were issued covering the installation of thirteen street lights in the hamlet of Melbourne which will be carried out early in the coming year.

Dorchester Rural Power District—Approximately one and one-half miles of overhead primary line were constructed and about two and one-quarter miles of single-phase line were changed to 3-phase in order to serve a 30-horse-power motor for a peat bog in this district.

A street-lighting system of twenty-five 100-watt, multiple, 115-volt lamps was installed in the police village of Belmont.

Essex Rural Power District—The distribution system in the police village of Cottam was taken into the Essex rural power district with a view to supplying service from the Essex distributing station by a line on the Talbot road from Essex to Cottam. This line will supply consumers along the road as well as in Cottam and vicinity.

In all probability a line will be extended in the near future from Essex distributing station to Woodslee.

Galt Rural Power District—Some additional customers have been supplied from this system during the year; the load is now in the neighbourhood of 27 horsepower.

Georgetown Rural Power District—This district was formed and two and one-half miles of line have been built to the hamlet of Norval, to supply thirty-five new consumers.

Guelph Rural Power District—This district was formed and preliminary work has been done to supply eight new consumers in 1924.

Harrow Rural Power District—Consumers in the township of Colchester South, formerly supplied by the Harrow distributing system, were supplied as part of the Harrow rural power district.

A movement is now on foot to construct lines in this district to the south of the village of Harrow to supply the hamlet of Oxley and summer residents on the Lake Shore.

Homer Rural Power District—This system will be incorporated early in the year with the Grantham township system and will in future be known as the Grantham rural power district. Extensions of a minor nature were made during the year to give service to approximately fifteen consumers.

Keswick Rural Power District—Construction formerly owned by Toronto and York Radial Railways in North Gwillimbury township, supplying 270 consumers, was taken into this rural power district on March 1, and two and one-half miles of new line were constructed to supply forty new consumers.

Kingsville Rural Power District—Consumers supplied in the townships of Mersea and Gosfield South from the Commission's distributing stations at Leamington and Kingsville were formed into the Kingsville rural power district, and approximately four miles of new line were constructed west of Kingsville to supply summer residents on the Lake Shore.

Special metering equipment was installed in the Kingsville and Leamington stations to measure the load to the rural power district separately from the loads of the towns.

Lansing Rural Power District—Construction formerly owned by the Toronto and York Radial Railways south of Richmond Hill and north of North York township, supplying 170 consumers, was taken into this rural power district on March 1, and approximately five miles of new line were constructed to supply forty new consumers.

London Rural Power District—Arrangements were made for the installation north-west of the city of a 450-kv-a. 13,200-to-4,000-volt substation, with a rural feeder and a feeder to handle the London township—Voted Area (Broughdale). Rural lines were constructed from this substation to serve a large number of rural consumers in the district desiring service.

A valuation was made of the existing 2,200-volt, delta distribution system constructed outside the city of London limits by the London Public Utilities Commission, and negotiations commenced with the London Public Utilities Commission to take over these lines and convert them to a 4,000-volt, 3-phase, 4-wire, grounded star system.

An estimate was prepared showing the cost of a multiple street-lighting system for Manor Park and Highland Park, and details in connection with the procedure to obtain the street lighting explained to those interested.

Connecting lines are being installed which will enable the Commission to serve from the two rural substations installed north and south of the city all the rural consumers now receiving power from the London Public Utilities.

Lynden Rural Power District—The extension from Lynden to Sheffield was placed in service in December, 1923.

Milton Rural Power District—This district was formed and preliminary work has been done to supply fifteen new consumers in 1924.

Mount Joy Rural Power District—This district was formed and service has been installed for twelve consumers in Markham township.

Newmarket Rural Power District—Construction between Newmarket and Aurora, formerly owned by Toronto and York Radial Railways, supplying ten rural consumers, was taken into this rural power district on March 1.

Preston Rural Power District—The Preston rural power district has been increased by the addition of a number of consumers on the existing lines as well as by extensions. The district now includes the hamlets of Blair, Bloomingdale, Breslau, Centreville, Doon, Freeport, German Mills, and Rosendale. A small extension is under way on the Guelph road east from Breslau.

Ridgetown Rural Power District—Approximately one-half mile of line was constructed in the Ridgetown rural power district to supply additional consumers requiring service in the Rondeau Provincial Park.

St. Jacobs Rural Power District—The line to Linwood, which was under construction last year, was completed, and in addition a line was built from Hawksville to St. Clements and Heidelburg. The flour mill in Conestogo has also become a customer on the rural line. The load on this district was over 100 horsepower for the month of October.

St. Thomas Rural Power District—Twenty-year contracts have been received from all the suburban consumers who were previously being served by the city of St. Thomas. Many of the consumers in this district have installed electric ranges. The load shows a steady increase.

Street-lighting systems were installed in the police villages of Fingal and Shedden.

Saltfleet Rural Power District—Approximately two miles of line were constructed during the year, and thirty additional consumers were given service from the lines.

Sandwich Rural Power District—Approximately three miles of rural line were constructed in the township of Sandwich West and the distribution system formerly known as Canard River, in the Essex County system, was incorporated into the Sandwich rural power district.

Following the receipt of applications construction work was commenced on the extensions in Sandwich East township, consisting of approximately nine miles of line.

A local office was established in Windsor. In addition to the Sandwich rural power district, this office will handle the billing of customers in the other districts in the county of Essex.

Sarnia Rural Power District—In the hamlet of Corunna a street-lighting system was installed on the poles of the Sarnia rural power district.

Approximately four and one-half miles of rural line were constructed in the district during the year, to supply customers along the St. Clair river and on the London road east of Sarnia.

Scarboro Rural Power District—This district was formed and lines were extended to supply thirty consumers in the Wexford district.

Stratford Rural Power District—In accordance with the recent legislation in regard to rural systems, the Commission has taken over, and is operating, the line from Stratford to Sebringville. Current is being obtained from the Stratford substation.

Tilbury Rural Power District—A small line extension was constructed in the hamlet of Fletcher, to supply rural consumers from the Fletcher distributing station.

Wallaceburg Rural Power District—Approximately sixteen miles of line, from the Commission's distributing station at Wallaceburg to the police villages of Port Lambton and Sombra, were completed. Distribution systems were completed in the two police villages, and consumers along the line given service as well.

Twenty-five 100-watt street lamps were installed in each of the police villages of Port Lambton and Sombra.

Service was supplied to two additional pumping plants, which pump the drainage from large areas of land, thus reclaiming them. This makes a total of four plants of this kind being supplied, with a possible fifth to be served in the near future.

Walton Rural Power District—Contracts with the villages of Blyth and Brussels necessitated the construction of a step-down station at the village of Walton. This station made possible the establishment of a rural district

with Walton as a base. The hamlet is now receiving Hydro service from the Walton station, there being some sixteen customers already connected.

Waterdown Rural Power District—One mile of new line was built to supply twenty-one new consumers and street-lighting at new bridges on Toronto and Hamilton Highway.

Woodbridge Rural Power District—Twenty-nine consumers formerly supplied by Bolton were taken into this rural power district, and construction of a line to Kleinburg to supply twenty new consumers was commenced.

Woodstock Rural Power District—The number of consumers and the power demands of this district have increased steadily throughout the year. The demand for the month of October, 1924, was 157 horsepower.

GEORGIAN BAY SYSTEM*

combining

SEVERN, EUGENIA AND WASDELLS SYSTEMS

The systems formerly known as the Severn, Eugenia and Wasdells systems, with their respective generating plants at Big Chute on the Severn river, Eugenia falls on the Beaver river and Wasdells falls on the Severn river, and the various interconnecting tie lines, were combined during the year under the name "Georgian Bay" system. This system also obtains surplus power from the Orillia Water and Light Commission, and from the Commission's Niagara system by means of a frequency-changer set.

The improved facilities for interchange of power among the various developments, brought about by the amalgamation of the three systems, has enabled the Commission to conduct operations more efficiently and economically than was possible under the former arrangement. With the completion of the extension of the Muskoka system development at South Falls on the Muskoka river, the details of which are given elsewhere in this report, and the proposed interconnection of the Muskoka and Georgian Bay systems, ample capacity will be available to meet probable increases in the demands for the next two or three years.

The operation of the frequency-changer set, which was placed in service at Mount Forest in the latter part of 1923, fully justified its installation; it enabled the system to carry the increased loads without any curtailment of service. Due to failure of the insulation on the windings of the 25-cycle motor, this unit was out of service for about eight months, but repairs were successfully carried out by the Commission's staff, and the unit resumed operation on September 13, 1924.

The second wood-stave pipe-line at the Eugenia development was completely installed and placed in operation on May 24, 1924. This additional pipe-line increases the plant capacity by approximately 2,000 horsepower.

In the Eugenia division, transfers were made of certain station transformers in order to accommodate changing loads in various municipalities. The three 100-kv-a. transformers formerly in use in the Chesley substation have been removed to the Walkerton Quarry substation and the three 150-kv-a. transformers formerly in this station installed at Chesley. The three 50-kv-a.

* Consult also page 21.

transformers formerly at Shelburne substation have been removed to Holyrood substation and three 100-kv-a. transformers formerly in this station installed at Shelburne.

The annual meeting of the "Association of the Eugenia System Municipalities" was held in Owen Sound on May 19, 1924. Delegates from practically all the Eugenia municipalities were present, as well as various members of the Commission's staff, and a complete discussion took place at this meeting concerning all matters relating to the finances of the system. A full explanation of the amalgamation of the various northern systems into one system to be known as the "Georgian Bay" system was given, and the advantages to be gained by each of the individual systems pointed out.

In the year under review, general engineering assistance, advice and supervision were rendered to various municipalities on the system. Such services were chiefly in connection with the analysis of operating statements to determine equity of existing rates, the purchase of suitable and standard types of equipment, the construction of extensions to local distribution systems and the provision of service for various consumers. The municipalities assisted in this way were as follows:

Severn Division—Alliston, Barrie, Beeton, Bradford, Coldwater, Collingwood, Cookstown, Creemore, Elmvale, Midland, Penetang, Port McNicoll, Stayner, Thornton, Tottenham, Victoria Harbor and Waubaushene.

Eugenia Division—Arthur, Chatsworth, Chesley, Dundalk, Durham, Elmwood, Flesherton, Grand Valley, Hanover, Holstein, Kincardine, Lucknow, Markdale, Meaford, Mount Forest, Neustadt, Orangeville, Owen Sound, Paisley, Priceville, Ripley, Shelburne, Tara, Teeswater and Wingham.

Wasdells Division—Beaverton, Brechin, Cannington, Kirkfield, Port Perry, Sunderland, Uxbridge and Woodville.

Special engineering assistance was also rendered to certain of the municipalities of the system, as follows:

SEVERN DIVISION

Barrie—The preliminary estimates that were prepared and submitted a year ago, covering an underground distribution system for a portion of the business section of the town, were followed this year by actual construction work. The installation of the cable ducts and the ornamental street-lighting standards has been completed and the cable work and necessary changes at the substation to accommodate the additional feeders are proceeding at the present time. It is expected that the new equipment will be utilized in the near future, and the poles and overhead lines on the main street removed in the early spring.

Beeton—An extension of the distribution lines was made to supply power under a new power contract secured from the Canadian National Railways for the operation of a motor on a coal chute. The street-lighting system was improved by the installation of fifteen new street lamps on the main street.

The increase in the load in this municipality necessitated the changing by the Commission of the transformer in the substation to provide the additional power required.

Bradford—Efforts were made to secure additional power loads in this municipality. During the first part of the fiscal year service was installed in the Lukes mill for grain-grinding purposes, and at a later date on the completion of the new flour mill the service was extended to serve the mill. A contract was also secured from the Canadian National Railways to provide electric service for pumping purposes.

The increase in the power load of the municipality necessitated a change by the Commission of the transformers at the substation. Changes were also required in the distribution lines.

Midland—Negotiations were completed during the year whereby the local Commission has purchased from this Commission the equipment in both the Fourth street and Tiffin substations. The Tiffin charts will be superimposed on the Midland charts and the municipality billed for 22,000-volt power on the basis of the combined peak.

A new industry was added during the year with a demand of approximately 1,500 horsepower. This necessitated an extension of the local 22,000-volt lines and the erection of two new substations at the consumer's plant.

Thornton—An effort has been made in this municipality to build up the load and improve the financial operation of the local system. A customer for the off-peak power which the municipality has for sale has been obtained, and the Commission is advising the local officials with regard to alterations and extensions to the distribution system required to serve this consumer.

EUGENIA DIVISION

Meaford—The distribution system in this municipality was reconstructed in accordance with the design prepared last year. The major portion of the primary lines was rebuilt and Hydro service inaugurated on February 1, 1924. The reconstruction work has been carried on throughout the year and is now practically completed. At the municipal pumping station, the two steam-driven pumping units have been replaced by an electrically-driven pump for domestic purposes and a gasoline-engine-driven pump for fire protection.

Wiarton—This municipality has not executed a contract for a supply of power with the Commission, but information was submitted covering the procedure necessary for obtaining Hydro service. Advice was also rendered concerning their present service, which is obtained from the Sauble Falls Electric Light and Power Company.

WASDELLS DIVISION

Beaverton—The extension out of Beaverton which serves the summer-cottage areas known as Cedarhurst and Maple Beach, was purchased from this Commission by Beaverton and the operation of the same taken over by the local officials on June 1. In order to improve the regulation, with the rapidly increasing load, one of the steel conductors was replaced during the summer with two No. 6 copper conductors. The extension at present comprises approximately five miles of line and service is given to ninety-four consumers.

Crushed Stone Company, Limited, Kirkfield—The Commission's engineers pointed out to this company, which had operated for several years with a very low power factor, that the employment of synchronous equipment would result in economy. After considering the detailed data prepared and

submitted, the company purchased a synchronous condenser, placing it in operation in April. This consumer's higher power factor has brought about a material improvement in the regulation and operation of the system as a whole.

GEORGIAN BAY SYSTEM—RURAL

Following the requests of various township councils throughout the district, considerable assistance was rendered in an effort to procure sufficient rural contracts to warrant the building of additional lines. Public meetings were held at different places, information was submitted respecting rates and methods of obtaining service, committees were organized and assistance was given to the various individuals who were appointed to carry on a canvass.

Assistance of this nature was rendered to the following townships:

Severn Division: Collingwood, Essa, Flos, Innisfil, Matchedash, Medonte, North Orillia, Nottawasaga, Oro, Sunnidale, Tay, Tecumseh and Vespra.

Wasdells Division: Bexley, Brock, Eldon, Mara, Mariposa, Morrison, Rama, Reach and Thorah.

General engineering assistance and advice were also rendered in connection with the operation of the following rural power districts:

Eugenia Division: Flesherton rural power district, Markdale rural power district, Ripley rural power district, and Walkerton Quarry rural power district.

Special engineering services were rendered to certain of the rural power districts, as follows:

SEVERN DIVISION

Elmvale Rural Power District—The station and distribution system for the hamlet of Phelpston were completed and placed in operation on January 10, 1924. Service to this hamlet is rather unique, in that the transformation from 22,000 to 110 volts is carried out in one step by means of a 10-kv-a. pole-type transformer.

Innisfil Rural Power District—Special attention was given to this district during the summer months as a result of renewed activity on the part of the Innisfil Township officials and the Cottagers' Association at Big Cedar Point. Service to this district will involve the erection of a substation and about ten miles of line, and although quite a number of contracts have been signed, there are not enough to warrant construction. This district will be given further attention during the coming summer.

Nottawasaga Rural Power District—Various extensions were made to this system and service was given to several additional customers. Information was also submitted to a group of prospective consumers in the vicinity of Batteau, a hamlet in the district.

Stayner Rural Power District—The distribution system which was constructed last year for the summer resort at Wasaga Beach, situated within this district, was extended to serve thirty-six new consumers during the current year. The power demand established by this district increased from approximately 35 horsepower to 59 horsepower. Investigations are being made at the present time as to the advisability of altering the service to this district from single phase to three phase in order to handle the increasing load.

EUGENIA DIVISION

Lucknow Rural Power District—Special assistance was rendered this district in connection with service from the 4,000-volt line between Holyrood station and the municipality of Lucknow.

WASDELLS DIVISION

Cannington Rural Power Districts Nos. 1 and 2—The operation of the service to the existing consumers on the Woodville and Sunderland feeders, which had previously been handled by the two municipalities, was taken over by the Commission on May 1. The consumers were all reclassified on the standard basis, and new rates applied.

ST. LAWRENCE SYSTEM

At the request of several municipalities in the eastern part of the province, engineering assistance was given to determine the probable cost of securing electric service; these included municipalities which had previously voted favourably on obtaining a supply of power from the St. Lawrence system transmission lines. An effort was made to establish rural power districts which might, in co-operation with these municipalities, secure an economic supply of power. No additional customers, however, were connected to the system during the year. The existing municipalities and other customers of the system have steadily increased their power demands, but the Glengarry Pulp Company, of Cornwall, has ceased operation, and this has resulted in lowering the total demand of the system.

Alexandria—An extension of the system to the hamlet of Green Valley was made during the year, to supply an industrial load of 90 horsepower. Certain changes are proposed in connection with the secondary and street lighting systems. Rates for lighting and street lighting were reduced during the year.

Apple Hill—The power demand of this police village has increased 10 per cent over the load taken for 1923, due to increased use of domestic appliances. The lighting rates were reduced during the year.

Brockville—A general increase in the use of electricity is noted in this municipality. Owing to important economics effected as compared to the preceding year, it was found necessary to make a marked reduction in the rates to all classes of customers during the year. Growth in the power demand of the municipality, which was anticipated as a consequence, is already becoming evident.

Chesterville—Demand for additional power for industrial purposes, has increased the power load of this system 17 per cent over that taken for 1923. On account of the improved financial condition of the system, lighting and power rates were reduced during the year.

Finch—The village council requested that the Commission build a transmission line to supply the village. Revised estimates of the cost of power and of a distribution system were prepared and submitted to the council. After the request was received from Finch village, rural meetings were held in the township of Finch to enlist the co-operation of the rural residents in the matter of the proposed line from Chesterville to Finch.

Hawkesbury—At the request of the council, engineering assistance was given this municipality in connection with granting a franchise to a private company to supply the residents of Hawkesbury with light and power.

Lancaster—With the object of increasing the demand on the line supplying Lancaster, rural meetings were held during the year to promote the co-operative utilization of power by the rural residents.

Martintown—The power demand of this police village has increased about 10 per cent over that taken for 1923, due to additional lighting consumers.

Maxville—There was an increase in the number of lighting consumers and about 10 per cent increase in the power demand of the system, over that taken in 1923.

Prescott—The finances of the electrical utility in this municipality have reached a very desirable condition, enabling rates to be applied comparable to those in the larger cities in the province. A reduction of rates was accordingly made which has resulted in a general desire for greater use of household appliances.

Williamsburg—The lighting and street-lighting rates were reduced on account of the good financial conditions of this corporation's electrical utility.

Winchester—Additional power consumers were served during the year. There is a steady increase of the use of appliances in this municipality and in consequence, the financial condition of the system warranted a reduction during the year, of the lighting and street-lighting rates.

ST. LAWRENCE SYSTEM—RURAL

During the year, at the request of township councils, public meetings were held in rural districts not established, to submit information on the cost of service to rural residents. This included the townships of Cornwall, Finch, Osnabruck, Roxborough and others. Two new districts have been started during the year, one at Williamsburg and the other at Apple Hill.

Apple Hill Rural Power District—A canvass of rural residents between Apple Hill and Maxville was made for the purpose of obtaining additional consumers in this district.

Brockville Rural Power District—Additional customers were connected to this district. During the year, a small extension was made to serve two farmers. Information on cost of service was given to prospective parties.

Chesterville Rural Power District—To obtain the co-operation of the rural residents to take service on the proposed transmission line from Chesterville to Finch, meetings were held in this district during the year. Provision was made at Chesterville station for the accurate measurement of power taken by Chesterville rural power district.

Martintown Rural Power District—There has been an increase in the number of consumers during the year. Meetings were held in the district to submit information on the cost of service to rural residents.

Prescott Rural Power District—Several services have been added to the lines in this district during the year. Street lighting in Spencerville was extended by adding several lamps.

RIDEAU SYSTEM

Due to improvement in the storage conditions in the headwaters of the Mississippi river and greater rainfall, no shortage of water, such as prevailed in the previous fiscal year, was experienced this year. It was, therefore, not necessary to operate auxiliary steam plants. There was a reduction in power loads, due to adverse industrial conditions in certain municipalities. However, the general financial condition of this system has continued to improve. Investigations respecting possible new developments on the Mississippi river, are being made with a view to having additional power supply for the system when the present capacity becomes fully utilized.

Carleton Place—The municipal commission has decided to discontinue the policy of merchandising electrical appliances, and the use of premises formerly occupied for this purpose has been discontinued. Office space for the utility was provided in the town hall.

Kemptville—The municipality has had a successful year, with additions to power loads. Following the settlement of a dispute between the municipality and the private power company which previously supplied power, all lines of the private company have been removed from the streets.

Lanark—The village has completed its second year with a surplus, although a reduction of rates took place at the beginning of the year.

Perth—Reduction of rates was also made in this municipality, which has completed a successful year.

Smiths Falls—Extensions have been made to the distribution system and an improved system of street lighting for the business street of the town has been designed and will be installed early in the new year. One of the larger power customers in the town has reduced his load, due to adverse industrial conditions.

THUNDER BAY SYSTEM

The extensions to the development at Cameron Falls previously authorized were carried on throughout the year and the third and fourth units were placed in operation. A new transmission line between the development and Port Arthur, and an extension of the transmission line from Bare Point to Fort William were constructed and placed in operation. These extensions were required to take care of demands on the system, which have greatly increased throughout the year. Service was given for the first time to the Great Lakes Paper Company, at Fort William; the demand of this company approximates 10,000 horsepower. This load, together with increased demands at Port Arthur, will bring the total demand on the system to approximately 40,000 horsepower. On completion of arrangements the Kaministiquia Power Company was supplied with power over the transmission lines of the Public Utilities Commission of Port Arthur. Arrangements have also been completed for installing the fifth and sixth units at the Cameron Falls development, and it is expected that the six units covered by the original design of this generating station will all be installed and in operation before the close of the next fiscal year. Assistance

was given to the municipality of Port Arthur in connection with the application of rates, execution of contracts and other matters of a similar nature.

The original substation and transmission lines constructed by the Commission in order to supply power to the municipality of Port Arthur from the, Kaministiquia Power Company were sold to the Public Utilities Commission of Port Arthur, so that at the present time the Hydro-Electric Power Commission has no capital invested in the Thunder Bay system other than that represented by the development at Cameron Falls, the transmission lines from Cameron Falls to Port Arthur, and the substation at Bare Point.

OTTAWA SYSTEM

Ottawa—The use of electricity in the home, for cooking and general purposes, already extensive, is continuing to increase, causing a corresponding increase in the power requirements of the system. The municipal commission is providing for additional capacity in lines and station equipment, which works are at present considerably taxed in supplying the customers. Some investigations have been made in the matter of securing additional blocks of power in this district, to supplement the present available supply which will shortly all be in use.

Nepean Rural Power District—A considerable extension of lines in this district has been made, including one line of five miles to serve the village of Manotick. Many additional parties have been given services and customers, in general, are making increased use of the service.

CENTRAL ONTARIO AND TRENT SYSTEM

In the Central Ontario district in 1924 there were no outstanding increases in the power load supplied, and the quiet commercial conditions reported in 1923 continued.

The power developments at Dam No. 8 and Dam No. 9 on the Trent river are under construction. The plant at Dam No. 8 is practically completed and has carried load since September. Satisfactory progress has been made on the generating station at Dam No. 9 and it is expected that this plant will be ready early in 1925. Both of these stations are of the automatic type and will be controlled from the station at Ranney Falls (Dam No. 10).

Investigations on the possibilities of increasing the power supply on the Trent river by utilizing the Crow river storage basin were continued, and a report is in preparation covering the power possibilities and the economic features of storage in this basin.

Bowmanville—The increase in the use of domestic appliances necessitated large increases in secondary copper.

Cobourg—A new 1,500 gal. per min., motor-driven pump was installed in the Cobourg pumping station.

Havelock—The Canadian Pacific Railway Company is now supplied with power from the Havelock system. The contract is for 200 horsepower.

Kingston—The Kingston Public Utilities Commission completed the construction of a new building for office accommodation. The administrative,

billing and appliance-sales departments are now located in this building. The offices were officially opened on May 9, by Sir Adam Beck.

Newcastle—The distribution system in the business section of the town was reconstructed.

Orono—Extensive improvements to the distribution system were completed.

Oshawa—An appropriation was approved for the installation of a 3,000-kv-a. transformer in the Oshawa substation and the rearrangement of the low-tension feeders to provide for additional load.

Peterborough—The new municipal substation at Peterborough came into operation on April 26, 1924. A feature of this station is a synchronous-motor-driven, direct-connected, motor-generator set rated at 1,500 kv-a., a-c., and 500 kw., d-c. This set is owned jointly by the Hydro-Electric Power Commission of Ontario and the Peterborough Utilities Commission and is used to supply 600-volt direct current to the Peterborough radial railway and also for power-factor correction on the municipal load.

Warkworth—An extension of the Warkworth distributing system to serve a suburban section north of the village was completed.

CENTRAL ONTARIO AND TRENT SYSTEM—RURAL

Estimated rates based on the provisions of the Rural Hydro-Electric Distribution Act were forwarded to the following townships: Camden, Douro, Emily, Hallowell, Madoc, Ops, Percy, Rawden, Seymour, Sheffield, Thurlow, Verulam.

Construction was completed in the following districts:

Trenton Rural Power District—In service December 22, 1923.

Bowmanville Rural Power District—In service December 31, 1923.

Kingston Rural Power District—A two-and-one-half-mile extension in this district was completed in January, 1924.

Contracts have been signed in Haldimand township covering service on the Kingston road west of Colborne, and including the village of Grafton.

The Commission approved of rural power districts as follows: Belleville, Brighton, Campbellford, Cobourg, Colborne, Deseronto, Lakefield, Madoc, Marmora, Norwood, Picton, Port Hope, Stirling, Sulphide, Warkworth, and Wellington.

NIPISSING SYSTEM

Construction work on the new development at Bingham Chute was sufficiently far advanced to place the first unit in operation on December 2, 1923. The second unit was placed in operation on March 31, 1924, and the construction completed. This development increases the generating capacity of the Nipissing system by approximately 1,200 horsepower. The turbines at the Nipissing development were overhauled and larger generating units installed. Construction work on a new pipe-line at this development is almost completed and it is expected to be placed in operation early in the coming year.

When the Bingham Chute development was placed in service, Powassan was supplied direct at generated voltage; the formerly used substation equip-

ment which was thus released was removed and installed at Callander to take care of increased load in that municipality. Plans have been prepared for the remodelling of the Callander distributing system, and it is expected that this work will be proceeded with at an early date.

Due to the increased load in North Bay it has been necessary to enlarge the distribution system, and as a result of investigations made during the year an additional 750-kv-a., 3-phase transformer is being installed in the North Bay substation. This installation will be completed and placed in service early in 1925.

NEW ONTARIO DISTRICT

Assistance was rendered to a number of municipalities in the northern portion of the province which have not as yet executed agreements for a supply of power with the Commission, but which requested advice concerning their power supply. This work was performed for the municipalities of Ansonville, Cache Bay, Cochrane and Sturgeon Falls.

RURAL DISTRIBUTION*

During the year the Rural Hydro-Electric Distribution Act was amended to provide for including the transformers and secondary equipment in the grant of the Provincial Government to help meet the disparity between the cost of urban and rural service, the amount of this grant to remain the same as when applied to primary lines only, viz., up to 50 per cent of the cost.

The assistance given by the Province to farmers towards the capital cost of supplying electrical service is in pursuance of a long-established governmental policy of promoting agriculture,—a policy which had previously found expression in the establishment of agricultural schools, colleges and experimental farms, in assistance for road building and in other ways. The assistance thus given makes it possible to extend electric service into certain districts relatively thinly populated, and so far from sources of electrical supply that service would not otherwise be financially feasible. The rural grant is of no advantage to the power system as a whole, because the general demand for power in the Province is such as readily to absorb all the available supply. On the other hand, the beneficial influence of rural electrical service on agriculture and upon the general economic life of the province of Ontario is already a factor of importance and worth.

The minimum of three farm contracts per mile of line constructed, or the equivalent, is still the standard requested by the Commission as the basis of the application for the grant towards rural lines.

The classification of services established to distribute equitably the cost to users shows the estimated net annual service charge, class demands and estimated monthly consumption.

Below are itemized the rural extensions approved this year, the capital, the amount of the Provincial grant, and the consumers in groups of hamlet and farm contracts. The summary of rural line extensions gives a record of the systems built prior to June 1, 1921, as well as the total from June 1, 1921, to October 31, 1924. The Provincial grant is for one-half the total cost.

*Consult also the Sixteenth Annual Report, pages 68 *et seq.*

RURAL EXTENSIONS

During the year, there were 285 miles of primary line constructed, rehabilitated and absorbed, of which thirty-eight miles were underground cable, and arrangements have been completed to construct a large number of additional rural lines during the coming year.

The following tabulation shows, in detail, the extensions approved this year, the number of consumers, the capital, the amount of the Provincial grant approved by the Government and the load taken:

Miles of line 146.42

Number of consumers

	Hamlet	Farm	
Niagara system	3,990	875	
Georgian Bay system			
Severn division	8	26	
Eugenia division	1	2	
Wasdells division	23	24	
St. Lawrence system	4	2	
Ottawa system	28	17	
Central Ontario and Trent system	5	14	
Totals	4,059	960	5,019

Total capital approved for primary line extensions $321,102.61

Amount of Provincial grants approved by Order-in-Council $160,551.30

Power supplied in rural districts to serve farm, hamlet and power customers

	Horsepower
Niagara system	7,124
Georgian Bay system—Severn division	57
" " " —Eugenia division	4
" " " —Wasdells division	50
St. Lawrence system	89
Ottawa system	54
Central Ontario and Trent system	203
Total	7,581

New contracts were executed by twenty townships, of which twelve are already being served. At the request of various township councils fifty-four meetings were held in different parts of the Province at which the question of rural power supply was discussed and explained in detail; moving pictures were shown describing the use and application of farm appliances and a demonstration was made at the annual Provincial ploughing match. At most of these meetings committees were appointed to pass on to those interested this information regarding distribution of power in rural districts, the uses that might be made of the power when it is available and general information regarding equipping the premises for light and power.

To date the Commission, having agreements with the following townships, has built lines to serve consumers.

Niagara System: Ancaster, Anderdon, Barton, Bertie, Beverly, Biddulph, Blandford, Blenheim, Bosanquet, Brantford, Burford, Caradoc, Chatham, Chinguacousy, Clinton, Colchester South, Crowland, Delaware, Dereham, Dorchester North, Dorchester South, Downie, Dover East, Dumfries North,

Dumfries South, Easthope North, Easthope South, Ekfrid, Ellice, Esquesing, Etobicoke, Flamboro East, Georgina, Glanford, Gosfield North, Gosfield South, Grantham, Gwillimbury North, Harwich, Hay, Howard, Humberstone, King, Lobo, London, Louth, Maidstone, Malahide, Malden, Markham, Mersea, Middleton, Moore, Mosa, Niagara, Nissouri East, Nissouri West, Norwich North, Norwich South, Orford, Oxford East, Oxford North, Oxford West, Pelham, Raleigh, Rochester, Saltfleet, Sandwich East, Sandwich South, Sandwich West, Sarnia, Scarboro, Sombra, Southwold, Stamford, Stephen, Thorold, Tilbury East, Toronto, Townsend, Trafalgar, Usborne, Vaughan, Waterloo, Wellesley, Westminster, Willoughby, Wilmot, Woodhouse, Woolwich, Yarmouth, York, York North, Zorra East.

Georgian Bay System—Severn division: Flos, Nottawasaga, Oro, Sunnidale, Tay. **Eugenia division:** Artemesia, Bentinck, Brant, Derby, Kinloss. **Wasdells division:** Brock, Eldon, Mariposa, Mara, Reach, Thorah.

St. Lawrence System: Augusta, Charlottenburg, Edwardsburg, Elizabethtown, Kenyon, Lancaster, Winchester, Williamsburg.

Ottawa System: Nepean.

Central Ontario and Trent System: Darlington, Kingston, Murray, Pickering, Whitby, Whitby East.

Summaries of information relating to rural line extensions, including expenditures and Provincial grants, are, for the townships just listed, presented below.

SUMMARY OF RURAL LINE EXTENSIONS

(a) Operation previous to June 1, 1921.
(b) Approved by the Commission from June 1, 1921, to October 31, 1924.

Miles of primary lines			
(a)		305.54	
(b)		899.65	
Total			1,205.19
Number of consumers			
(a) Suburban	7,185		
Hamlet	1,410		
Farm	1,750		
		10,345	
(b) Hamlet	7,007		
Farm	3,253		
		10,260	
Total			20,605
Contracts not yet connected			1,950
Total rural capital expenditure approved to October 31, 1924			
(a)	$517,911.77		
(b)	1,928,215.96		
Total			$2,446,127.73
Provincial grants approved by Order-in-Council to October 31, 1924			
(a)	$258,955.89		
(b)	955,965.25		
Total			$1,214,921.14

When contracts between the consumer and the township have been executed, users of power in townships are supplied with service under classifications as set out below. Following the classification a table is presented showing the class demands in horsepower, the estimated monthly consumption in kilowatt-hours and the estimated net annual service charge.

CLASSIFICATION OF SERVICES FOR RURAL DISTRICTS

Class I: Hamlet Service—Includes service in hamlets, where four or more customers are served from one transformer. This class excludes farmers and power users. Service is given under two sub-classes as follows:

1-B: Service to residences and stores for lighting and small appliances. Use of appliances over 750 watts permanently installed is not permitted under this class.

1-C: Service to residences with electric range or permanently installed appliances greater than 750 watts.

Special or Unusual loads will be treated specially.

Class II-A: House Lighting—Includes such contracts as residences which cannot be grouped as in Class I. This class excludes farmers and power users.

Class II-B: Farm Service, Small—Includes lighting of buildings and power for miscellaneous small equipment and power for single-phase motor not exceeding 2-horsepower, or an electric range (range and motor not to be used simultaneously) on a small farm of 10 acres or less in fruit growing districts and 50 acres or less in mixed farming or dairy districts.

Class III: Farm Service, Light—Includes lighting of farm buildings, power for miscellaneous small equipment, power for single-phase motors, not to exceed 3-horsepower demand, or electric range. Range and motors are not to be used simultaneously.

Class IV: Farm Service, Medium Single-Phase—Includes lighting of farm buildings and power for miscellaneous small equipment, power for single-phase motors, up to 5-horsepower demand, or electric range. Range and motor are not to be used simultaneously.

Class V: Farm Service, Medium 3-Phase—Includes lighting of farm buildings and power for miscellaneous small equipment, power for 3-phase motors, up to 5-horsepower demand, or electric range. Range and motor are not to be used simultaneously.

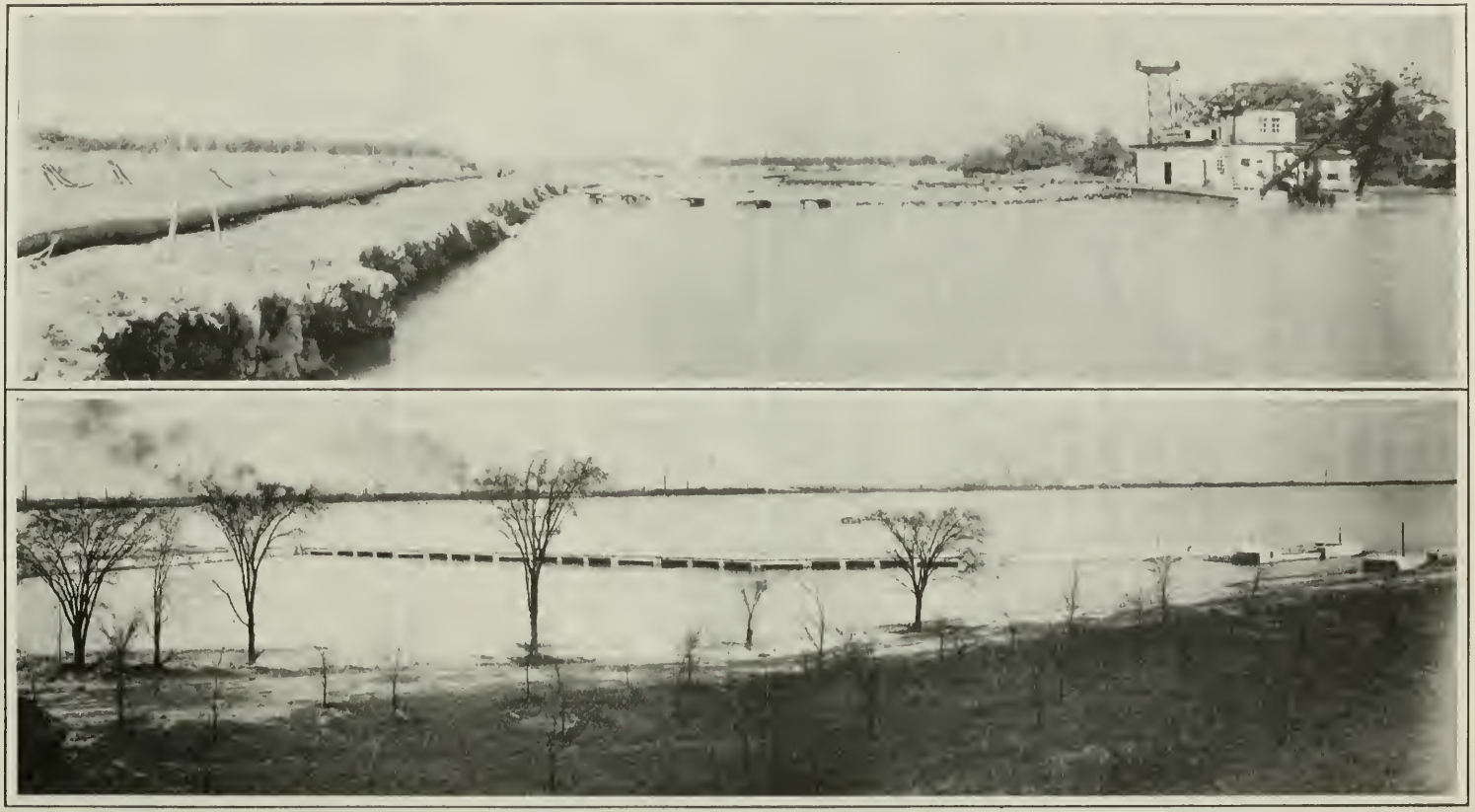
Class VI: Farm Service, Heavy—Includes lighting of farm buildings and power for miscellaneous small equipment, power for motors, up to 5-horsepower demand and electric range, or 10-horsepower demand without electric range.

Class VII: Farm Service, Special—Includes lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand, and electric range.

Class VIII: Syndicate Outfits—Includes any of the foregoing classes which may join in the use of a syndicate outfit, provided the summation of their relative class demand ratings is equal to the kilowatt capacity of the equipment.

CLASS DEMANDS, ESTIMATED MONTHLY CONSUMPTION AND ESTIMATED ANNUAL SERVICE CHARGE IN RURAL POWER DISTRICTS

Class	Name	Class demand horse-power	Estimated monthly consumption kilowatt-hours	Estimated net annual service charge
				$ c.
I	Hamlet Service (b. lighting, etc.	1	15	19.44
	Hamlet Service (c. lighting, range, etc.	2⅔	150	35.64
IIA	House Lighting	1⅓	15	24.30
IIB	Farm Service, Small	2⅔	25	37.26
III	Farm Service, Light	4	40	49.14
IV	Farm Service, Medium Single-Phase	6⅔	70	51.30
V	Farm Service, Medium Three-Phase	6⅔	70	62.10
VI	Farm Service, Heavy	12	150	89.64
VII	Farm Service, Special	20	300	142.56



QUEENSTON-CHIPPAWA POWER DEVELOPMENT

a. Canalized river looking east, showing on the left the cut bank at edge of cableway disposal area and on the right dredge "Stewart"
b. Intake and ship canal looking from Chippawa across the Niagara river to Niagara Falls, New York

SECTION IV

HYDRAULIC ENGINEERING AND CONSTRUCTION

During the fiscal year 1924 considerable progress was made on the work that is under the direction of the Hydraulic department. Among the items of greater importance may be mentioned the placing in operation of unit No. 6 and the advancement towards completion of units No. 7 and No. 8 in the Queenston power house; the construction for and installation of units No. 3 and No. 4 of the Nipigon development; also the construction of plants at Dam No. 8 and Dam No. 9 on the Trent river. The year's work also covered construction in connection with additions to the capacity of the South Falls plant on the Georgian Bay system, and to the Nipissing and Bingham Chute plants on the Nipissing system. Surveys and investigations were made in connection with further power possibilities—notably on the Niagara, St. Lawrence and Ottawa rivers. A more detailed account of the above activities and of other work carried on by the Hydraulic department is given below.

NIAGARA SYSTEM

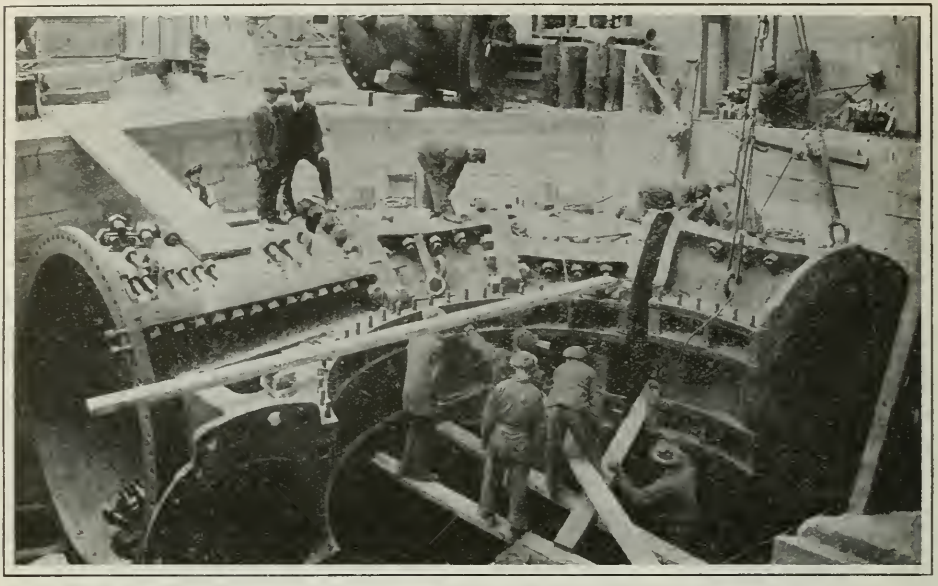
QUEENSTON-CHIPPAWA DEVELOPMENT

The work on the Queenston-Chippawa development during the past year consisted chiefly of an extension to the power house beyond unit No. 5, the installation of further units, dredging in the Welland river and in the earth section of the canal, and protection for canal banks.

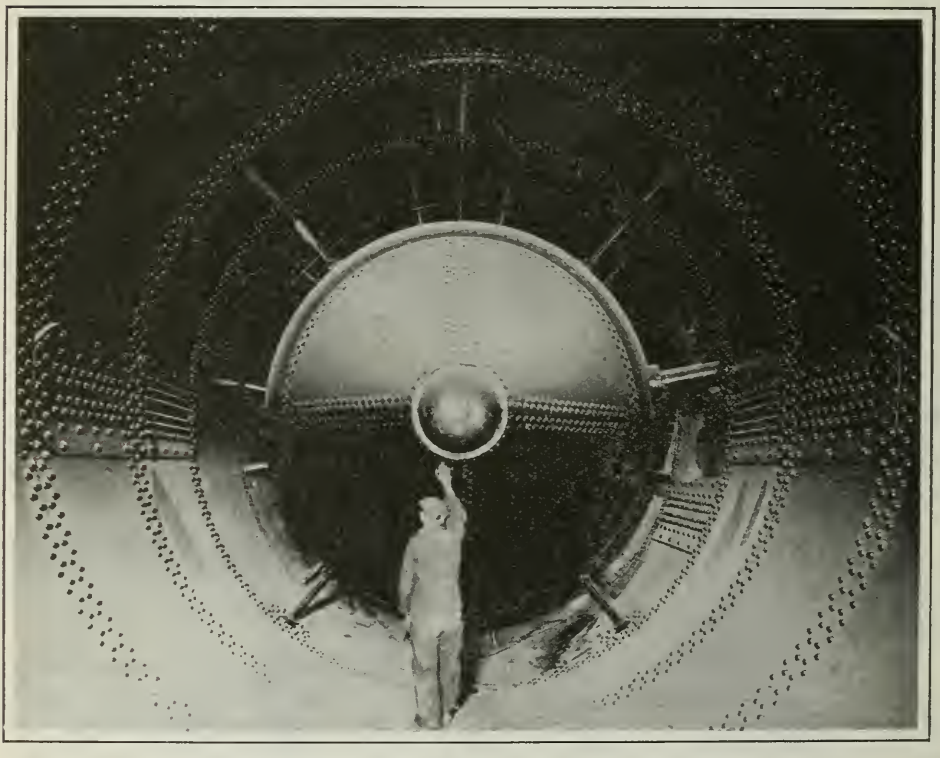
The dredging is being done by the E. O. Leahey Company, Limited, of Ottawa, by means of two large suction dredges, the disposal being carried sometimes for considerable distances from the point of operation. It is expected that all the dredging required will be completed in the coming summer, thereby providing a waterway of sufficient size for the ultimate capacity of the development.

In the rock section of the canal considerable work has been carried on for the protection of the canal banks. These betterments include concrete and masonry toe walls, concrete lining below the rock surface, scaling and guniting rock walls and trimming slopes and berms.

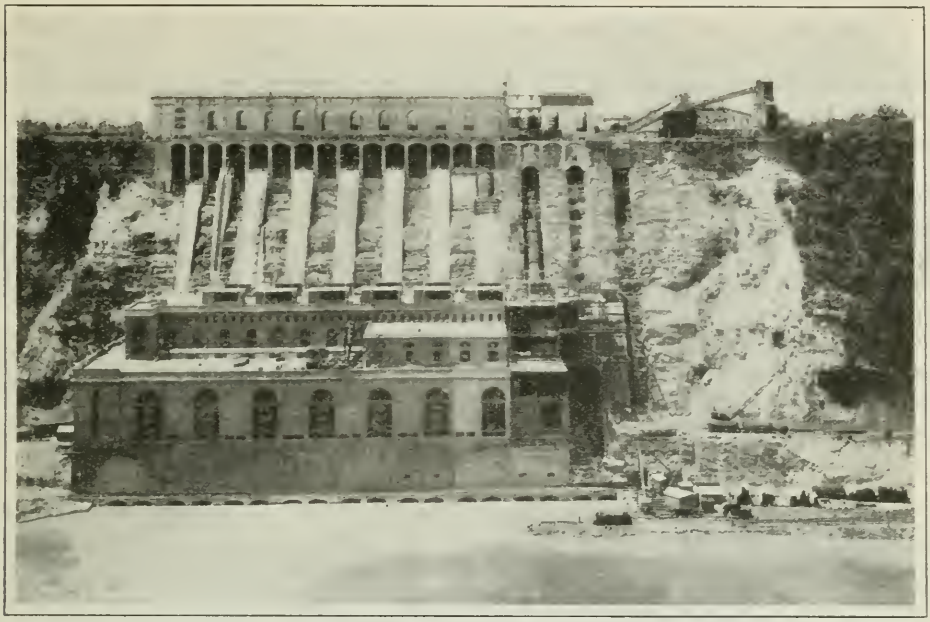
During the year work has proceeded on the installation of four more large generating units at the power house which, with the five units already installed, will give a capacity of over 500,000 horsepower. This work involved considerable rock excavation and placing of concrete, and the installation of penstocks, Johnson valves, turbines and other hydraulic equipment.



QUEENSTON-CHIPPAWA POWER DEVELOPMENT
Power house. Erection of turbine scroll case for unit No. 7



QUEENSTON-CHIPPAWA POWER DEVELOPMENT
Power house. Upstream end of Johnson valve for No. 6 unit, taken from interior of penstock



QUEENSTON-CHIPPAWA POWER DEVELOPMENT
Screen house and power house as seen from United States side of Niagara river

QUEENSTON-CHIPPAWA POWER DEVELOPMENT
Power house in lower Niagara gorge, looking north towards Queenston from University Point on the United States side of the Niagara river

Unit No. 6 was officially started on January 8, 1924. The installation of unit No. 7 is practically complete, and it is expected to be in service before the end of the present year, while No. 8 will be completed early in 1925. Work on unit No. 9 has progressed favourably, and it is expected that this unit will be ready for service about September, 1925.

During January a serious congestion of ice in the lower Niagara river threatened a repetition of the jam which occurred in 1909. Propitious weather conditions, however, averted anything more serious than delay to construction operations. It is interesting to note that the design of the power house provides for protection against a rise in water of 10 feet above the maximum level records in 1909, or 40 feet above that of the present year.

Efficiency tests were made of unit No. 6 at the Queenston plant. These tests were similar to those made on unit No. 5 in this plant, described in the previous Annual Report.

ONTARIO POWER COMPANY DEVELOPMENT

No. 2 conduit at the plant of the Ontario Power Company was drained for inspection on the night of Saturday, May 10. The conduit was found to be in excellent condition throughout its length, form marks on the concrete were still very distinct and at no place was any damage to the concrete apparent. There is nothing to indicate any change in the friction coefficient of the conduit from the value it had at first. The conduit was perfectly free from any deposits except two small pieces of concrete from some foreign source and a piece of timber.

GEORGIAN BAY SYSTEM*

SOUTH FALLS DEVELOPMENT

The increased demand for power on the Georgian Bay system made it necessary to provide additional generating equipment. To this end an extension to the South Falls plant was started early in the year, which, when completed, will increase the capacity from 1,700 horsepower to 5,400 horsepower. The work consists of replacing the present 700-horsepower unit with a 2,200-horsepower unit, and the addition of a second similar unit, together with the construction of two 7-ft. diameter, wood-stave pipes and the necessary remodelling of the intake structures.

Good progress has been made on the work to date, and it is expected that the first of the new units will be ready for operation by January, 1, 1925, and the second unit a few months later.

EUGENIA FALLS DEVELOPMENT

To utilize more efficiently the installed capacity of the Eugenia Falls plant it was found advisable to provide a second pipe line. Accordingly a 46-inch diameter wood-stave pipe approximately 3,340 feet long, a steel surge tank of the differential type and a steel penstock approximately 1,600 feet long were installed. The work was completed early in the year, and the installation tested and placed in service in May, 1924.

*Consult also page 21.

ST. LAWRENCE SYSTEM

St. Lawrence River Investigations

Activities in connection with the St. Lawrence river during the fiscal year 1923-24, have been confined mainly to office work, which had to do principally with layout studies and estimates of costs. Plans were prepared which accompanied application to the Ontario Government for the power rights on the St. Lawrence in Ontario, and the application filed with the Department of Public Works, Ottawa, for approval of the proposed scheme of development at Morrisburg.

Toward the end of the year arrangements were made to carry out certain observations and studies of the ice conditions in the St. Lawrence during the coming winter season, and in addition further information regarding foundation conditions at the proposed sites will be secured. To this end a contract for diamond drilling was entered into at the latter end of October.

NIPIGON POWER DEVELOPMENT
Dam and headworks from upstream side of development

THUNDER BAY SYSTEM

NIPIGON RIVER-CAMERON FALLS DEVELOPMENT

The demand for more power on the Thunder Bay system resulting largely from the rapid development of the pulp and paper industry in this district, made it necessary to provide additional generating capacity at the Cameron Falls generating station. The installation of units No. 3 and No. 4, commenced in the previous year, was completed. The first of these new units was placed in operation in July and the second in September, 1924. This increased the available capacity of the plant from 25,000 horsepower to 50,000 horsepower.

The steadily increasing demands for power on the system* necessitated still further additions to the generating capacity and accordingly construction work was started on the substructure for units No. 5 and No. 6. These units will have the same rated capacity as the four now operating, and their completion will bring the total capacity of the plant up to 60,000 horsepower.

*See diagram, page 32.

Regulation of Nipigon River

The installation of the fifth and sixth units in the Cameron Falls generating station requires that the flow of the river be regulated to ensure an adequate supply of water at all times. Lake Nipigon, having an area of over 1,500 square miles, offers exceptional opportunities for storage, and investigations show that a range of water levels on this lake of nine feet could be secured without undue expense for land damages or control works. This variation is sufficient for complete regulation of the run-off, not only from the Nipigon drainage area, but also from other drainage areas. It is proposed, therefore, to construct a regulating dam at the outlet of the lake to control the outflow and regulate the levels within the range above referred to.

Surveys of the proposed dam site at Virgin falls have been completed.

Preliminary reconnaissance and surveys were made during the year to determine the feasibility of utilizing some of the waters of the James Bay watershed. Information upon this subject is being gathered and studied.

CENTRAL ONTARIO AND TRENT SYSTEM

DAM No. 8 DEVELOPMENT—TRENT RIVER

In the summer of 1924 the general construction work and installation of the units in this development was completed, and the plant placed in operation. This plant marks a new departure in power plant construction by the Commission in that it is designed as a remote control station, and will be operated from the Ranney Falls plant.

Turbine efficiency tests were carried out along with studies of the hydraulic conditions in the long tailrace channel. At this plant it was necessary to excavate a channel for over half a mile from the power house in order to reduce tailwater level to a reasonable elevation and thereby conserve as far as possible the head available in this section of the river. Measurements were made of the slope in this channel for various discharges and the roughness factor determined. The nature of the rock through which the channel is excavated is indicated in the accompanying illustration. The results of the measurements showed losses in the channel slightly less than those calculated in its design.

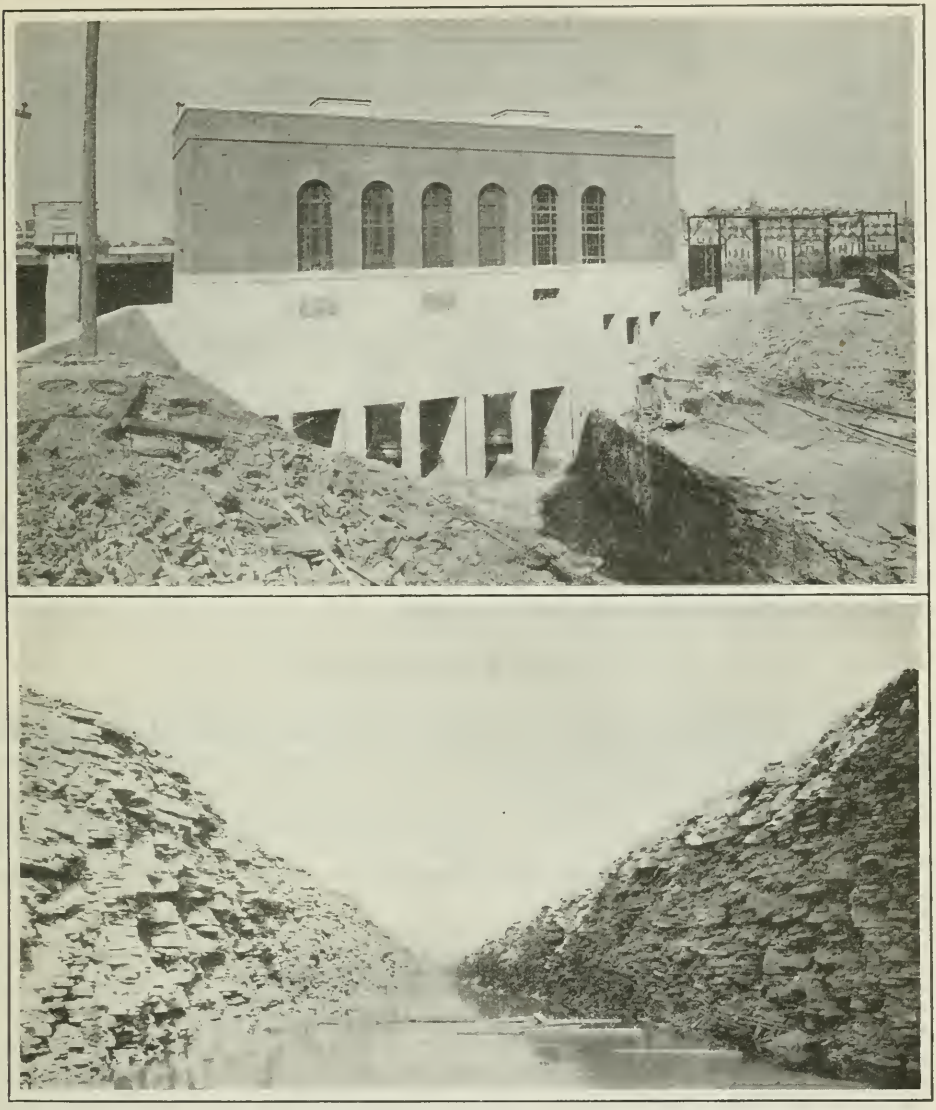
DAM No. 9 DEVELOPMENT—TRENT RIVER

Early in 1924 the excavation for the tailrace and power-house substructure was started. This plant when completed will have a capacity of 4,800 horsepower in three units of 1,600 horsepower each, and like the Dam No. 8 development will be a remote-controlled station operated from Ranney Falls.

It is expected that the first unit will be ready to carry load by January, 1925, and the other two units shortly afterwards.

Trent River Investigations

Additional information was collected relative to the stream flow on the upper reaches of the watershed with a view to further regulating the flow of the river.



DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER

a. Power house and high-tension outdoor station from southwest. Note the draft tubes of the turbines

b. Tailrace excavation looking towards power house. Note the character of rock channel

The providing of storage on the Crow river was investigated, and it is anticipated that a definite scheme of water conservation will be determined in the near future.

The progressive compilation and general study of the hydraulic features of power from the Trent canal have been continued.

Further sources of power in the district were investigated and surveys made of possible sites at Burleigh falls, Lakefield, and Dams No. 4 and No. 5 on the Otonabee river.

NIPISSING SYSTEM

NIPISSING DEVELOPMENT

During the year the second turbine in the Nipissing generating station was rebuilt. The necessary grading for a new wood-stave pipe was also completed early in the year. The pipe is now being erected and it is expected that it will be in service early in November. A considerable increase in the capacity of the plant is expected when this work is completed. The hazard resulting from continued operation of the old pipe will also be eliminated.

BINGHAM CHUTE DEVELOPMENT

The work on this development was completed early in December, 1924, and the plant placed in service, thus adding 1,300 horsepower to the capacity of the system, and at the same time conserving the water supply by making double use of the flow in conjunction with the Nipissing plant.

Tests were carried out to determine the efficiency of the turbine units installed, and to measure the various hydraulic losses in the plant. The measurement of water at this plant was made by what is known as the colour injection method, and consistent results were obtained.

South River Storage

Extensive investigations and surveys have been completed to determine the most economical and best available site for a storage reservoir to conserve the flood waters from the watershed.

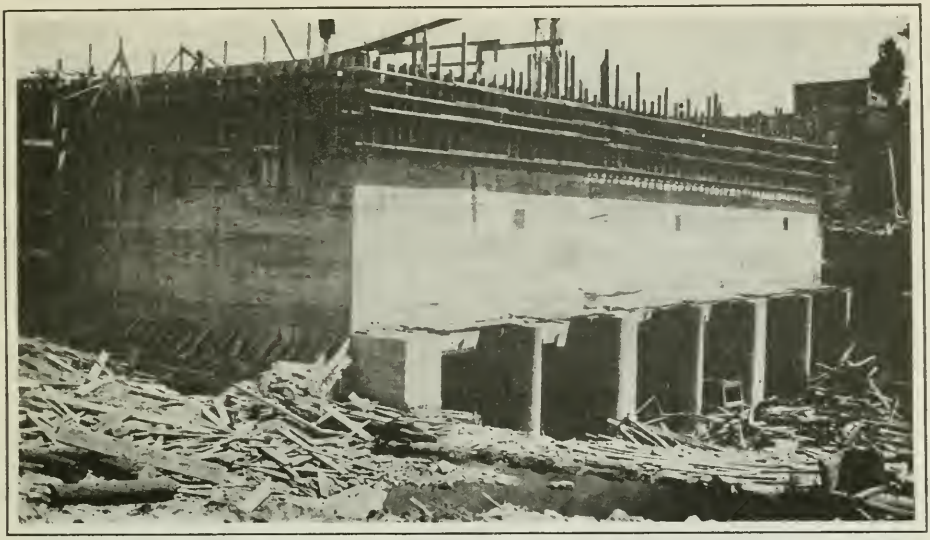
It is expected that sufficient storage will be created this coming summer to meet the full installed capacities of the stations at Bingham Chute and at Nipissing, and provide against the shortages that have occurred during low-water periods of stream flow.

HYDRAULIC INVESTIGATIONS

Measurements of Diversions at Niagara

By the provisions of the Boundary Waters Treaty, proclaimed May 13, 1910, an agreement was reached between Great Britain and the United States regarding the diversion of waters from the Niagara river for power development. By the provisions of this Treaty, a diversion of 20,000 cubic feet per second is permitted on the American side of the boundary and 36,000 cubic feet per second on the Canadian side. An International Board known as the Niagara Control Board has been appointed charged with the accurate determination of these diversions.

To comply with the requests of the Niagara Control Board, it has been necessary to carry out investigations at each of the power plants operated by the Commission at Niagara Falls, to make a number of tests of typical units and develop rating curves whereby the records of power output of the plants can be converted into records of water used. From the results of these various tests rating curves were developed and transmitted in reports to the Control Board covering all of the work done in these plants.



DAM NO. 9 POWER DEVELOPMENT—TRENT RIVER
Substructure. Stripping concrete forms from lower half, August 14, 1924

Moon and Musquash Rivers

Surveys were carried out during the year on the Moon and Musquash rivers throughout their length, and studies were made of possible power sites. It appears possible to develop over 20,000 horsepower in this area by means of various head concentrations, and preliminary estimates are being made to ascertain the most economical layouts.

Mississippi River

The present storage in the Mississippi river is provided by the Mississippi River Improvement Company, and close connection with this company is maintained by the Hydraulic department. The company has augmented the storage on this system during the past year by the erection of a temporary dam at the foot of Mazinaw lake. Additional storage was also secured by means of repairs to some of the old dams at other lakes.

Ottawa River

Extensive surveys of the Ottawa river between Des Joachims and Mattawa were commenced in June, 1924, and are still being carried on. Preliminary estimates and layouts were also made of sites in the vicinity of Calumet island.

Miscellaneous

Investigations in connection with the cause and amounts of variation in water level in the Niagara river are in progress.

Reports on several proposed developments were made upon the request of the Minister of Lands and Forests; and much general information has been supplied in answer to various enquiries with respect to stream flow and possible power sites throughout the Province.

SECTION V

ELECTRICAL ENGINEERING AND CONSTRUCTION

(STATION SECTION)

NIAGARA SYSTEM

QUEENSTON GENERATING STATION

The erection of the superstructure excepting certain details is complete for eight units, and a temporary end wall is erected immediately north of No. 8 unit.

No. 6 generator was complete and ready for service in December, 1923. Electrical tests, including sudden short circuit, were conducted on this unit in January, 1924, and the early part of February, but on February 5, during insulation test, one armature coil failed. This was replaced by the Canadian Westinghouse Company under its contract, and the insulation test successfully carried out. The unit was first connected to the load on May 6, 1924, and was put into regular service on May 15, 1924.

Erection of No. 7 generator is nearly complete and the unit should be ready for service early in December, 1924.

No. 8 unit should be ready for operation about March, 1925.

The transformer bank, with switching and control equipment and auxiliaries for No. 6 unit was placed in service with the generator, while similar equipment for Nos. 7 and 8 units is being installed and will be ready by the time the respective generators are ready to go into service.

On April 10, 1924, authorization was given for the purchase and installation of a 100 line (P.A.X.) private automatic telephone exchange to provide improved communication facilities. This installation should be completed early in December.

A special signal and telephone system for operating purposes is being provided between the control room, generator pedestals, turbine deck and generator-room operating gallery.

A permanent pole line, to be used as a standby for service power, has been installed from the Ontario Power Company 12,000-volt lines to the Queenston power house and placed in service.

A Warren type "A" master clock, and type "B" secondary clock have been ordered. These will be used by the operator in maintaining constant average frequency on the Niagara system.

Screen House

Construction of the 100-foot extension to the screen house to take care of Nos. 7 and 8 units has been completed.

Work has been continued on the interior finish of the Administration building at the south end of the screen house, and is now practically completed.

QUEENSTON-CHIPPAWA POWER DEVELOPMENT
Administration building and screen house. View shows the south front. The forebay is on the left and the Niagara gorge on the right

General plans have been prepared for landscape improvements in the adjoining grounds, and following this general scheme, a roadway has been put in and the flower beds, grass lawn, stone terrace wall, tree and shrub planting have been completed immediately south of the building. A small part of the terracing and planting has also been completed on the east side.

Extension for No. 9 Unit

Authorization was given on June 12, 1924, to proceed with the extension of the development for a ninth unit and to have it ready for service at the time of the peak load in 1925.

Plans have been prepared for an extension 50 feet to the north of No. 8 unit, of construction and architectural design similar to the existing buildings.

On May 22, 1924, the Commission authorized the purchase and installation of one Canadian General Electric Company 54,000 kv-a. generator complete with accessories, duplicate of Nos. 7 and 8 machines. The order was placed on June 17, 1924, and includes changes in the armature connections of Nos. 4, 5, 7 and 8 units by which each phase winding will be divided into two separate parallel circuits so that more complete generator relay protection may be installed.

On June 4, 1924, authorization was given for the purchase and installation of three 18,330 kv-a. Canadian Westinghouse Company transformers, similar in all respects to transformers in Nos. 6, 7 and 8 banks. The order was placed on June 20, 1924, and the transformers will be ready for installation with No. 9 generator.

Screen House Extension

Plans have been prepared for a 50-foot extension, of similar design to the existing building, to house the gates and screens for No. 9 unit penstock. The structural steel has been delivered and erected.

NIAGARA TRANSFORMER STATION

Lincoln Distributing Station

The construction of this station, as outlined in the 1923 Annual Report, was completed in June, 1924, with the exception of moving the Grantham township feeder equipment to its new location in the station and changing it from 2,300- to 4,000-volt service.

Niagara-on-the-Lake Municipal Station

In September, 1923, the Commission authorized engineering assistance to the Hydro-Electric System of Niagara-on-the-Lake in the purchase and installation of the necessary equipment for a 300 kv-a. pole-type station. Necessary plans were prepared and material purchased.

The installation was completed by the local Commission and the station placed in service on May 26, 1924.

DUNDAS TRANSFORMER STATION

Caledonia Distributing Station

Additional ventilation was provided in the building.

Decewsville Distributing Station

To provide power for the village of Cayuga and the surrounding district, the Commission, on April 15, 1924, authorized the installation of a pole-type station at Decewsville. Plans were prepared and equipment purchased for a station to consist of a 300 kv-a., 3-phase, outdoor-type transformer with 13,200-volt choke-coils, disconnecting-switches and fuses, and one 4,000-volt feeder. The station was placed in service on October 27, 1924.

TORONTO—BRIDGMAN AVENUE TRANSFORMER STATION

The station, as outlined in the 1923 Annual Report, was completed and was first tested out in October, when all the 110,000-volt equipment and the two transformer banks were placed in operation.

TORONTO—WILTSHIRE AVENUE TRANSFORMER STATION

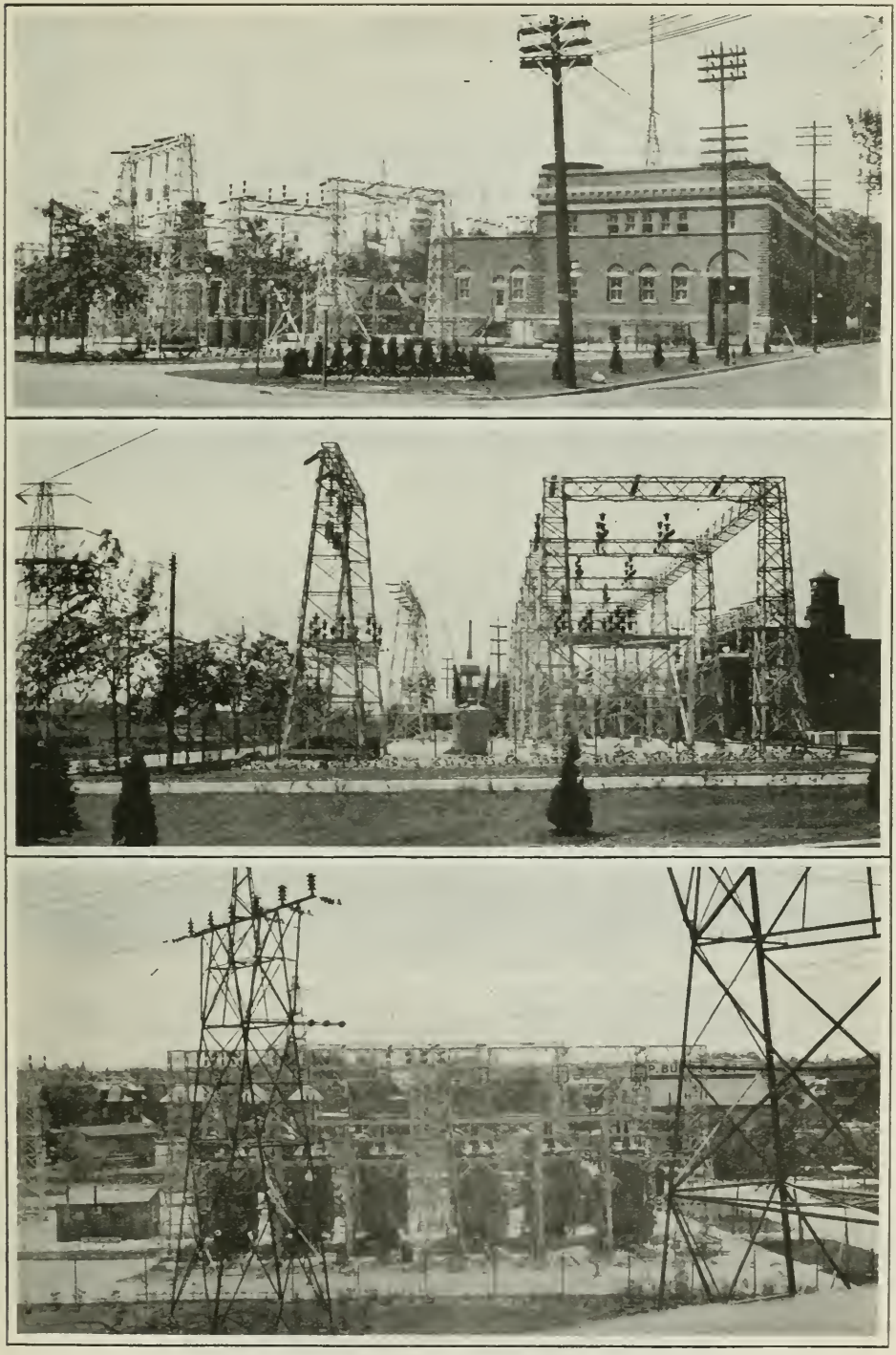
The station was placed in service on October 8, 1924, to carry a section of the city load following trouble at Strachan Avenue transformer station.

Plans have been completed for the installation of the third bank of transformers during the summer of 1925.

TORONTO—DAVENPORT TRANSFORMER STATION

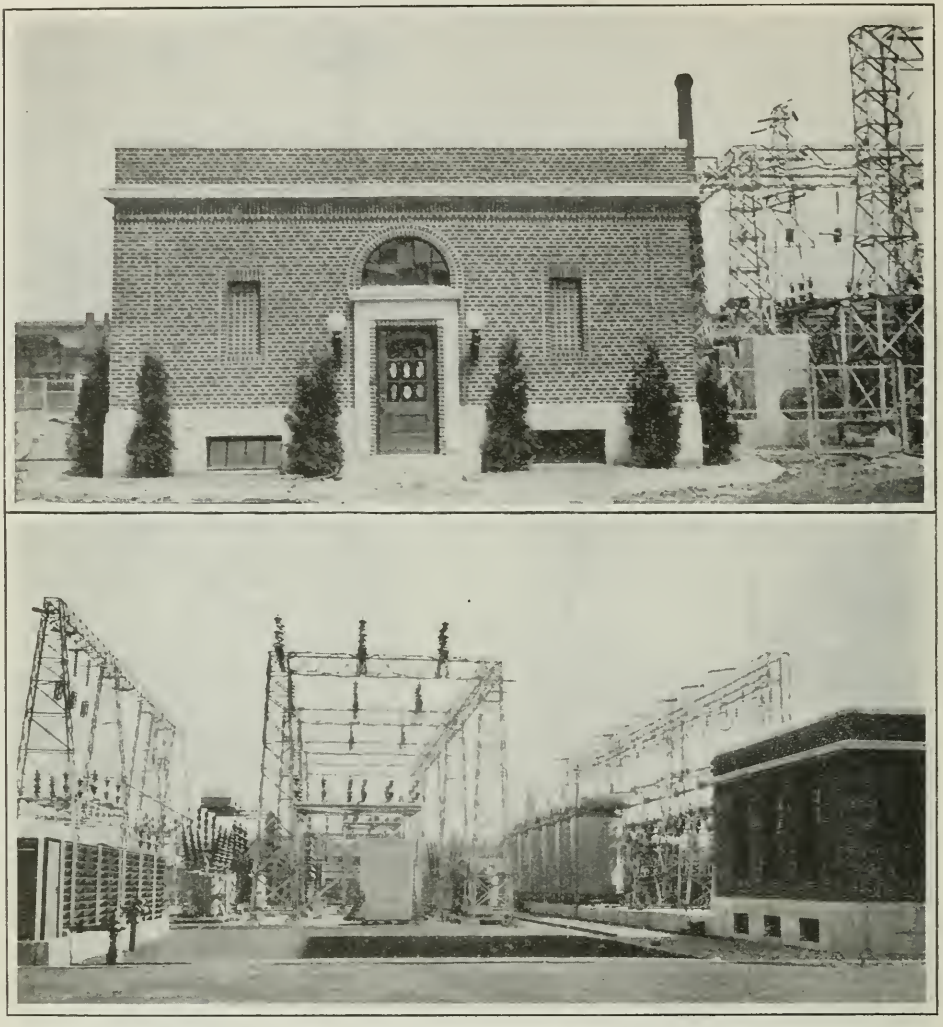
Canadian National Railway Shops Metering Station

Due to the rearrangement of the 12,000-volt lines in the Leaside district, it was necessary to move the 12,000-volt metering-equipment for the above load from Toronto Davenport transformer station to the Canadian National Railway shops at Leaside. This change was completed in February, 1924.



TORONTO, BRIDGMAN AVENUE TRANSFORMER STATION

a. General view
b. View looking west
c. View looking south



TORONTO, WILTSHIRE AVENUE TRANSFORMER STATION
a. Control and service building
b. Outdoor structure and two 15,000-kv-a. banks of transformers

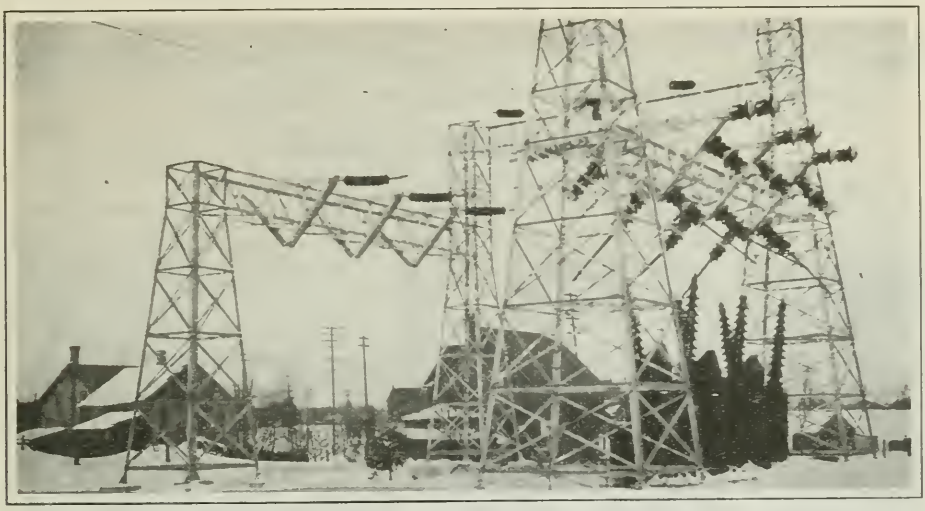
LONDON TRANSFORMER STATION

Broughdale Distributing Station

In order to supply 4,000-volt power to London township and the London rural district, authorization was given in June, 1924, to construct an outdoor substation at Broughdale, with three 150 kv-a., single-phase, outdoor-type transformers. The installation should be completed in November, 1924.

KITCHENER TRANSFORMER STATION

In December, 1923, authorization was given to install the necessary equipment for connecting up the spare 13,200-volt oil circuit-breaker to the 13,200-volt



KITCHENER TRANSFORMER STATION
Switching structure, 110,000-volt lines

busses in order to supply a second underground feeder to Kitchener municipality. This work was completed on June 18, 1924.

Authorization to increase the station capacity and to make certain other changes was given in June, 1924.

Plans are being prepared for this work which will include the installation of a bank of three 5,000 kv-a. transformers, and changes in the building and switching equipment.

Elmira Distributing Station

To take care of the increasing load at this station, authorization was given on September 26, 1924, to increase the transformer capacity. Three 250 kv-a. transformers were purchased and will be installed outside the station on a concrete pad. The installation should be complete in November, 1924.

St. Jacobs Distributing Station

The Commission, on August 20, 1924, authorized the purchase and installation of a 150 kv-a., 3-phase, outdoor-type transformer to replace the 75 kv-a., 3-phase transformer. The new equipment was placed in service on September 24, 1924.

STRATFORD TRANSFORMER STATION

Harriston Distributing Station

Authorization was given on March 21, 1924, to purchase and install the necessary equipment to supply 4,000-volt power to the municipality of Clifford. The feeder was placed in service on May 11, 1924.

Palmerston Distributing Station

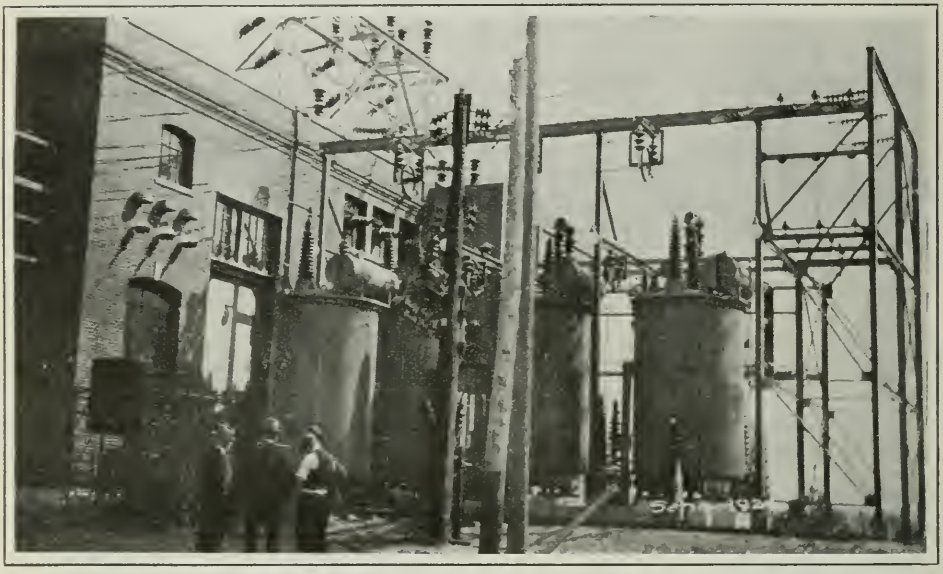
Authorization was given on September 25, 1924, to increase the transformer capacity. Three 150-kv-a. transformers, to be released from Elmira distributing

station, will replace the existing bank. This work should be completed in December, 1924.

Additional ventilators have been installed in the building.

Walton Distributing Station

The station was placed in service on July 11, 1924.



BRANT TRANSFORMER STATION
Outdoor bank of three 5,000-kv-a. transformers

BRANT TRANSFORMER STATION

New outdoor 26,400-volt oil circuit-breakers were installed temporarily in three of the existing feeders to insure more reliability of service.

COOKSVILLE TRANSFORMER STATION

Milton Municipal Station

On May 7, 1924, the Commission authorized engineering assistance to Milton Hydro-Electric System in the installation of an additional bank of three 200-kv-a. transformers (purchased by the local Commission from Paris municipality), the purchase and installation of an additional 4,000-volt feeder-panel and the rearrangement of the present low-voltage layout.

The work was done by the Commission and the transformers placed in service on September 15, 1924.

KENT TRANSFORMER STATION

Blenheim Distributing Station

The Commission, on August 20, 1924, authorized the installation of three 150-kv-a. transformers, which had been released from Wallaceburg distributing

station, to replace the present three 75-kv-a. transformers. The 150-kv-a. transformers were placed in service on October 12, 1924.

Five new wall ventilators were installed.

Sarnia Municipal Station No. 2

The Commission on July 23, 1924, authorized engineering assistance to the Sarnia Hydro-Electric System in the design of a semi-outdoor station and in the purchase and installation of the equipment necessary to take care of the increasing load in the southern section of the city. Plans have been prepared and all material ordered and contract let for a station to be located on the St. Clair transformer station property at Vidal and St. Andrew Streets. The design is for an ultimate installation of five 3-phase transformers and six 4-000-volt feeders. At present only two 1,500-kv-a., 3-phase, outdoor type English Electric Company transformers will be installed with the necessary 26,400-volt switching equipment mounted on a steel structure, and the switchboard, oil circuit-breakers and meters for two 4,000-volt feeders and low-voltage transformer leads housed in a brick building. The station will be fed temporarily over the new 110,000-volt line to St. Clair transformer station.

Wallaceburg Distributing Station

To take care of the increasing load on the station and the loss of capacity due to the failure of two 150-kv-a. transformers in No. 1 bank, authorization was given on June 5, 1924, to install a 1,500-kv-a., 3-phase transformer. This transformer was placed in service on June 27, 1924.

ESSEX TRANSFORMER STATION

Kingsville Distributing Station

Improvements to the metering equipment were completed on September 3, 1924.

The Commission on August 20, 1924, authorized the installation of a second bank of three 75-kv-a., single-phase, indoor-type transformers, released from Blenheim distributing station.

Leamington Distributing Station

Improvements to the metering equipment were completed on August 26, 1924.

Sandwich Distributing Station

The Commission on June 10, 1924, authorized the purchase and installation of the equipment necessary for a semi-outdoor-type station to be located in the town of Sandwich at Bloomfield road and South Street. Plans have been prepared and a 1,500-kv-a., 3-phase, outdoor-type transformer purchased. This will be installed outdoors with the 26,400-volt switching equipment. The switchboard, totalizing meters, oil circuit-breakers and equipment for two 4,000-volt feeders will be housed in a brick building.

Windsor Converter Station

In August, the Commission authorized the construction of a synchronous-converter station in Windsor to supply additional power to the Essex district

of the Hydro-Electric Railways. Owing to the urgent demand for this additional power and possible early developments in the railway load, it was decided to build a temporary station on MacDougall Avenue approximately 150 feet north of the Windsor municipal station.

Drawings which have been completed provide for one 26,400-volt incoming line, two synchronous converters with transformers, and five 600-volt d.c. feeders.

One 500-kw., 600-volt, 6-phase converter with a.c. and d.c. switching-equipment and two d.c. feeder panels obtained from Whirlpool distributing station, and one 550-kv-a., 26,400/440-volt transformer will comprise the first installation, which is expected to be in service in December, 1924.

YORK TRANSFORMER STATION

Authorization was given to construct two new operators' houses. Plans were accordingly prepared and the contract awarded to Mr. J. W. McClintock, of Mimico. These houses will include all modern conveniences and the surrounding grounds will be graded and fenced. Construction is to be finished by November 30, 1924.

Woodbridge Distributing Station

In January, 1924, authorization was given to purchase and install outside the station one 150-kv-a., 3-phase, outdoor-type transformer with necessary 13,200-volt switching-equipment; also to change the 4,000-volt bus to enable the village of Woodbridge to be fed from the 150-kv-a. transformer and the village of Bolton and the rural district from the existing bank of three 75-kv-a. transformers. This installation was placed in service on May 11, 1924.

Pole-type lightning-arresters were installed on October 26, 1924.

ST. CLAIR TRANSFORMER STATION

The Commission on May 21, 1924, authorized the erection of a new 110,000-volt outdoor transformer station to be known as St. Clair transformer station with an initial installation of one bank of three 2,850-kv-a., 63,500/26,400-volt transformers with one spare transformer together with the necessary switching-equipment. Provision will be made for adding additional banks as load demands grow.

The station site of approximately seven acres has been purchased on the outskirts of the city of Sarnia immediately south of the Canadian National Railway at the north-east corner of St. Andrews and Vidal streets.

Drawings are being prepared for a complete layout of the station. All disconnecting-switches and busses will be supported on a steel structure. The transformers will be located over concrete tunnels through which all oil and water piping and control cables will be carried. Both high- and low-voltage oil circuit-breakers will be automatic and electrically operated from a control board located in a small brick building to be erected adjacent to the steel structure. This building will also house the storage-battery and motor-generator charging set, the pumps for the water supply to the transformers and the oil filter and tanks. Three outgoing feeders and station service feeders will be installed with provision for future feeders as required.

The construction of this station will be started early in 1925.

RADIO COMMUNICATION

The work in connection with the installation of guided radio-telephone equipment, whereby communication for operation may be carried on between stations, was completed in the following transformer stations: Niagara, Dundas, Toronto (Strachan Avenue), London, Guelph, Preston, Kitchener, Stratford, St. Marys, Woodstock, St. Thomas, Brant, Cooksville, Kent and Essex.

The work, which began in the spring of 1922, was completed and placed in service in 1924.

Authorization was given for the purchase and installation of higher power radio broadcasting and receiving sets at each of the following transformer stations: Toronto, London, Essex, Dundas and Queenston.

Those in Toronto and London were installed in July, 1924, and the one in Essex in August, 1924. It is expected those in Dundas and Queenston will be installed in November or December of this year.

All of the above work has been carried out under the direct supervision of the electrical staff of the Laboratories.

GEORGIAN BAY SYSTEM*

This system comprises the original Eugenia, Severn and Wasdells Systems which are identified herein as divisions.

Telephones

During the year protective equipment was installed in the Eugenia division on the telephones at Chatsworth, Chesley, Dundalk, Elmwood, Grand Valley, Holyrood, Kilsyth, Orangeville, Owen Sound, Shelburne and Walkerton Quarry distributing stations; in the Severn divisions at Alliston, Beeton, Bradford, Camp Borden, Coldwater, Cookstown, Canadian Pacific Railway, Port McNicoll, Elmvale, Penetang, Stayner, Thornton, Tottenham and Victoria Harbour distributing stations; and in Wasdells division at Beaverton and Cannington distributing stations.

EUGENIA DIVISION

Chesley Distributing Station

Authorization was given to replace the three 100-kv-a. transformers with the three 150-kv-a. units from Walkerton Quarry distributing station. Larger capacity current-transformers were also installed and the new work was placed in service on June 15, 1924.

Holyrood Distributing Station

Authorization covering changes in the transformers was given in May, 1924, and the three 100-kv-a., single-phase transformers were removed, while the three 50-kv-a., single-phase units originally at Shelburne distributing station were installed and placed in service on July 26, 1924.

*Consult also page 21.

SEVERN DIVISION

Midland International Fibre Board Municipal Stations

Engineering assistance was given to the Midland Commission in December, 1923, covering the purchase and installation of two outdoor 22,000-volt distributing stations with metering equipment to be located on the Midland International Fibre Board Company's property.

One station consists of three 150-kv-a., single-phase transformers installed on a concrete pad with a 4-pole structure carrying the necessary 22,000-volt switching equipment.

The other station consists of three 450-kv-a., single-phase transformers with a similar installation.

The instrument transformers are mounted on the pole-structure of the 450-kv-a. transformer bank. The graphic-recording wattmeters are installed in the International Fibre Board Company's building on the customer's panel. The two stations were placed in service on March 4, 1924.

Waubaushene Auto Transformer Station

Authorization was given in March, 1924, to proceed with the purchase and installation of an auto-transformer station at Waubaushene of sufficient capacity to handle 6,000-kv-a. from South Falls; however, as it is the intention to temporarily deliver power over the tie line at 22,000-volts, the purchase of the auto-transformer will be held off until next year.

MUSKOKA SYSTEM

HANNA CHUTE GENERATING STATION

Preliminary engineering in connection with the proposed development at Hanna Chute on the Muskoka river has been carried on.

SOUTH FALLS GENERATING STATION

As mentioned in the 1923 Annual Report, considerable preliminary engineering work was done in connection with the extension to this station to provide additional power for the combined Georgian Bay system.

Authorization was given in March, 1924 to proceed with this extension.

As auxiliary power was required for construction purposes, a 400-kv-a. temporary station was erected at Bracebridge. Power was purchased from the Bracebridge municipality at 2,200-volts, two-phase and fed into the Huntsville line at 22,000-volts, three-phase.

When completed, this plant will comprise three generators representing a total capacity of 4,750-kv-a. One of the existing generators rated at 750-kv-a. will remain and two new units of 2,000-kv-a. capacity have been purchased. The original 450-kv-a. unit is being removed from service. Four 1,200-kv-a., single-phase transformers have been purchased to step up from 6,600-volts, generator voltage, to 22,000-volts delta or 38,000-volts star, these being alternative voltages for tie line operation to the Severn division. One of these transformers will be held as a spare unit.

The generators, which are rated at 2,000-kv-a., 80 per cent. power factor, 3-phase, 60-cycle, 6,600-volts, 514 r.p.m. and are of the horizontal type direct-

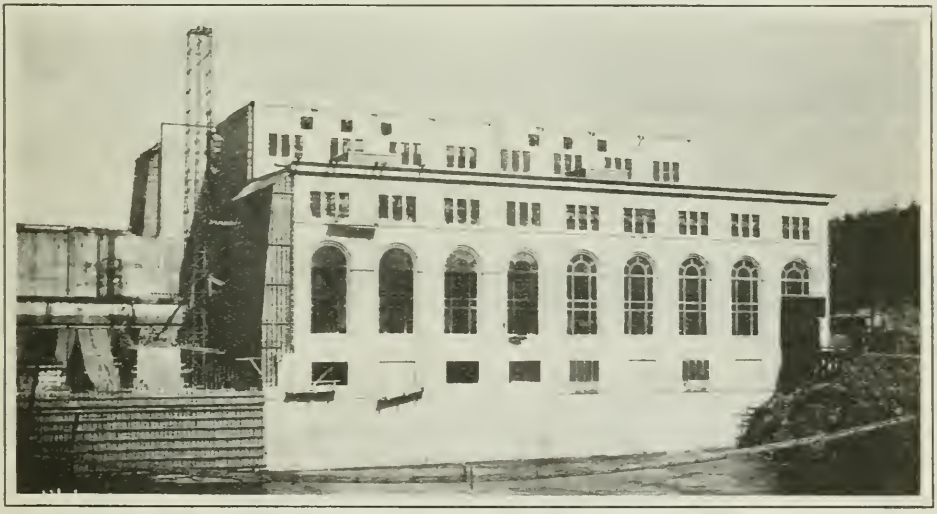
connected to a water turbine, have been ordered from the Bruce Peebles Company, Limited, Edinburgh, Scotland, and will be delivered in December, 1924. One unit should be ready for service in January and the second in March, 1925.

Four 1,200-kv-a., single-phase, 60-cycle, 6,600/22,000-volts oil-insulated, water-cooled transformers have been ordered from the Canadian General Electric Company and should be delivered and installed in November, 1924. The existing bank of three 400-kv-a. transformers will remain in service and will still be used to feed Huntsville at 22,000 volts.

Gravenhurst Distributing Station

Authorization was given in September, 1924, covering the construction of an 800-kv-a., 38,000-volt star or 22,000-volt delta, pole-type distributing station at Gravenhurst, to be located at the rear of the lot on which the municipal station and offices are now situated.

Power will be supplied from a tap on the tie-line between South Falls generating station and Waubaushene switching station. Two 400-kv-a., single-phase transformers suitable for three-phase to two-phase operation are being purchased.



NIPIGON POWER DEVELOPMENT
Power house. Completed for four units and showing progress on extension for units No. 5 and No. 6

THUNDER BAY SYSTEM

NIPIGON GENERATING STATION

In the 1923 Annual Report, a description of the station extension and of the installation of No. 3 and No. 4 units was given. The building was completed and No. 3 unit placed in service on June 24, and unit No. 4 on September 30. The 110,000-volt equipment, including the new bank of three 8,000-kv-a. transformers, was also made alive on the latter date. The Commission did all the work except install the generators.

The club-house, besides providing boarding and rooming accommodation for the single operators, will incorporate the post-office and provide a reading

room, large living room and a billiard room in the way of recreation for the staff in general.

Nipigon Extension for Units No. 5 and No. 6

A further extension to this station was found necessary in order to meet the rapidly increasing demand for power in this district, and in May the Commission authorized the installation of No. 5 and No. 6 generating units with No.3 transformer bank and the switching-equipment necessary for the generators, transformers and No. 3 transmission lines. It is expected that No. 5 unit will be ready for service by August 1, 1925, and No. 6 unit by October 1, 1925.

Building

The extension to the building will be a duplicate of the extension for units No. 2 and No. 3. On July 12, a contract was placed for the structural steel and 90 per cent. of it has already been shipped.

Electrical Apparatus

The contract for the manufacture and installation of the two 10,600-kv-a. generators complete with direct-connected exciters and voltage regulators and duplicates of No. 3 and No. 4 machines, was awarded to the Canadian General Electric Company on April 28, 1924.

The contract for the manufacture of three 8,000-kv-a. transformers was also placed with the Canadian General Electric Company on June 17, 1924. These transformers will be duplicates of those now in service at this station.

PORT ARTHUR TRANSFORMER STATION

In June, the Commission authorized the erection of a permanent outdoor station at Bare Point, Port Arthur, to replace the temporary station erected in 1920 and extended in 1923 and 1924.

General Description

An outdoor type station will be erected with electrical connections and disconnecting-switches supported on steel structures. The transformers will be located over concrete tunnels in which all oil and water piping and control cables will be placed.

Capacity

The first installation will be the two banks of three 5,000-kv-a. transformers and spare transformer from the temporary station, but in the design, provision is being made for a third and fourth bank and also for further future extension.

Switching Equipment

There will be two 110,000-volt incoming lines from Nipigon generating station and one outgoing line to the Great Lakes Paper Company with provision for additional incoming and outgoing lines. The necessary steel has been ordered.

The two transformer banks will be connected to a common 22,000-volt bus from which will be tapped off five outgoing feeders and one station service feeder. An emergency bus will also be provided and one emergency oil circuit-breaker.

Some of the equipment from the present station will be utilized and the remainder is being purchased.

Station Service

The 75-kv-a., 22,000/2,300-575-volt, 3-phase transformer now in the temporary station will be used to supply the station service, and provision will be made for the installation of a second transformer when required.

Building

The switchboard will consist of one instrument and one relay panel which will be located in a brick steel-frame building. This building will also house the pumps for water supply to the transformers, the oil tanks, oil filter, battery and charging set. An erection room with crane will be located at one end with a pit to give sufficient head-room to dismantle the 5,000-kv-a. transformers.

The erection of the station and the installation of all equipment will be carried out by the Commission. The concrete footings for the high-voltage switch structure are already poured and the station site is graded. The station should be completed and in service next year.

PORT ARTHUR TEMPORARY TRANSFORMER STATION

The installation of the second bank of three 5,000-kv-a transformers, described in the 1923 Annual Report, was completed on April 20, when the transformers were placed in service.

In February, two type "GA3" outdoor 22,000-volt oil circuit-breakers, and two 22,000-volt type "OF" lightning-arresters were purchased for two 22,000-volt feeders to connect up with the second bank. The equipment was placed in service in June.

Port Arthur Municipal Station (High Street)

In January an agreement was completed whereby the Public Utilities Commission of Port Arthur purchased the Commission's substation on High street, complete with all 22,000-volt and 2,200-volt switching equipment and transformers.

CENTRAL ONTARIO AND TRENT SYSTEM

DAM No. 8 GENERATING STATION

During the year, building plans and specifications were completed, including the water, air and oil systems. An air compressor, lubricating oil filter, transformer-oil tank and transformer truck were purchased, and all construction work practically completed. The superstructure, which measures 112 feet long, 34½ feet wide and 40 feet high, includes the generator room with gallery floor and a basement at the east end and is constructed of a steel frame and reinforced concrete floor and roof slabs, and the walls are of broken coursed squared stone masonry with concrete coping. Two monitors are located on the top for ventilating purposes. A 20-ton electrically-operated crane was erected in the generator-room.

It was decided to equip this station, together with Dam No. 9 generating station, which is described elsewhere in this Report, with automatic control, and have the supervisory remote control at Ranney Falls generating station.

All erection work and installation of equipment was done by the Commission except the installation of the generators, which were installed by the Swedish General Electric Company. The Canadian Westinghouse Company supervised the installation of the automatic switching and control-equipment.

The first unit was placed in service under automatic control on September 11, the second on September 16, and the third unit on October 3, 1924. The remote supervisory control should be ready for service about the end of the year.

A general outline of the station proper was given in the 1923 Annual Report, but as this is the first automatic station that the Commission has built, a detailed outline of this particular feature may be of interest.

The equipment for the remote supervisory control for both this station, and the one at Dam No. 9 will be located in Ranney Falls generating station. A 20-pair, paper-insulated, lead-covered standard telephone cable will be carried on a separate pole-line from Ranney Falls generating station, one and a half miles down the river to a junction box adjacent to Dam No. 9 generating station, where a 10-pair cable is tapped in and another 10-pair cable continues one and a half miles farther on to Dam No. 8 generating station.

The supervisory control is very similar to the automatic telephone equipment. It will be possible for the operator at Ranney Falls generating station, by pressing ordinary telephone switch keys, to perform any of the following operations at either Dam No. 8 or Dam No. 9.

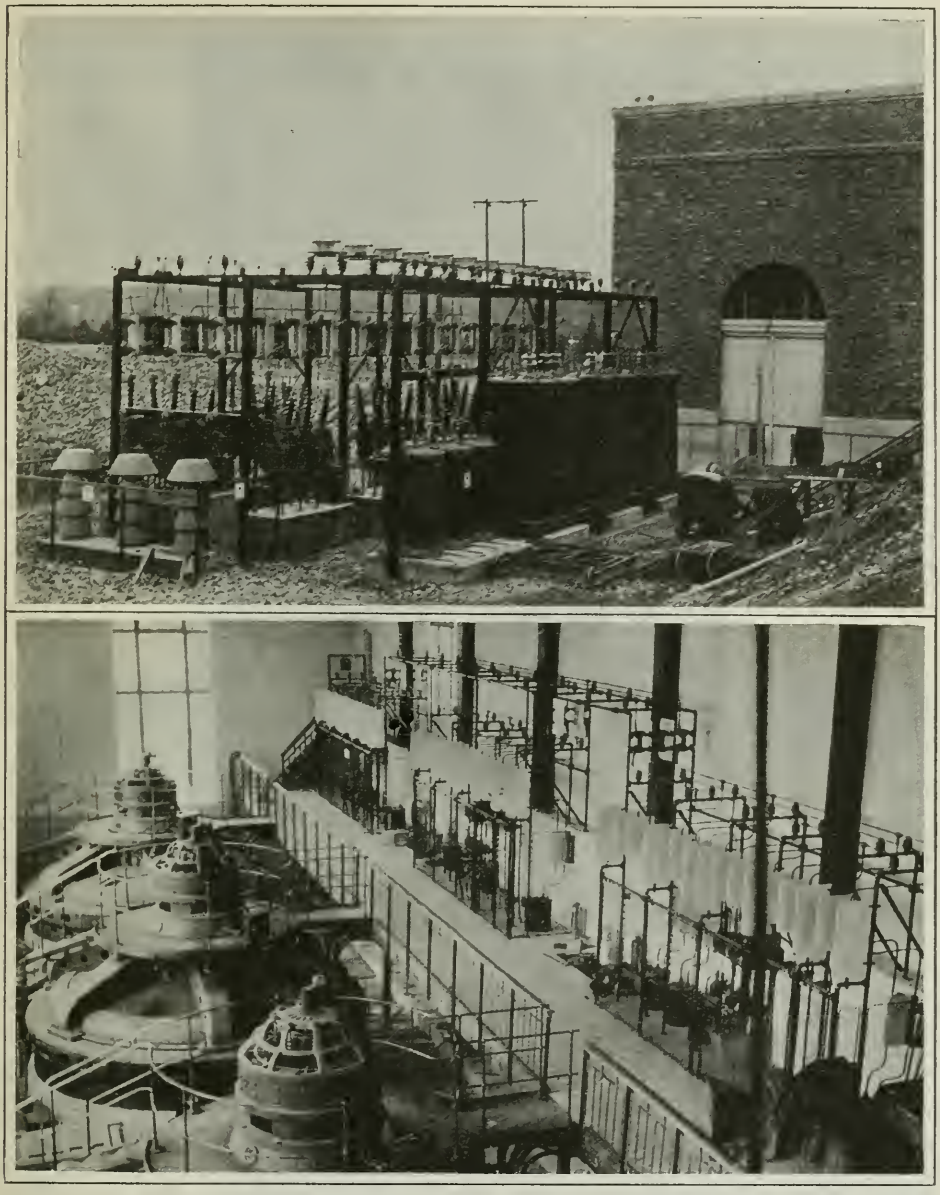
(1) Start and stop any unit.
(2) Increase or lower the load on any unit.
(3) Raise or lower the power factor of either station.
(4) Place either one or both stations on full automatic control from a water-level float, actuated by the change in water level in the forebay.

Metering equipment will be installed at Ranney Falls generating station to indicate the kilowatts and integrate the watt-hour load output of each controlled station. Separate meters will indicate the reactive volt-amperes carried and graphic instruments will record variations in the water-level in the forebay of each of these remote stations, and rows of ten lights will indicate the gate opening of each unit.

The supervisory equipment will be so connected that in event of any automatic functioning at either of the controlled stations, the operator at Ranney Falls generating station will be warned by a klaxon, and should he be at the control-board at the time, he could watch the signal lamps and actually note what operation is being performed. Provision will be made whereby the operator can check the position of all the equipment at either of the remote stations, by pressing a special telephone key. This will start a sequence of signals, which will check the location of all breakers, the signal lamps at Ranney Falls either remaining as they were, or changing, depending upon whether or not some operation had occurred and not been signalled through previously. A klaxon horn located at the remote stations will also be energized for a short period to call the station attendant when certain automatic operations occur.

Any generator under normal control may be started and placed on the line and be carrying its full load in less than one minute from the time the starting key is operated. Most of this time will be necessary to accelerate the machine.

Every generator on starting will be brought up to approximately 95 per cent full speed, and the circuit-breaker will then be automatically closed, connecting the generator to the line without field excitation. Another relay immediately functions closing the field switch and the generator pulls into step and is

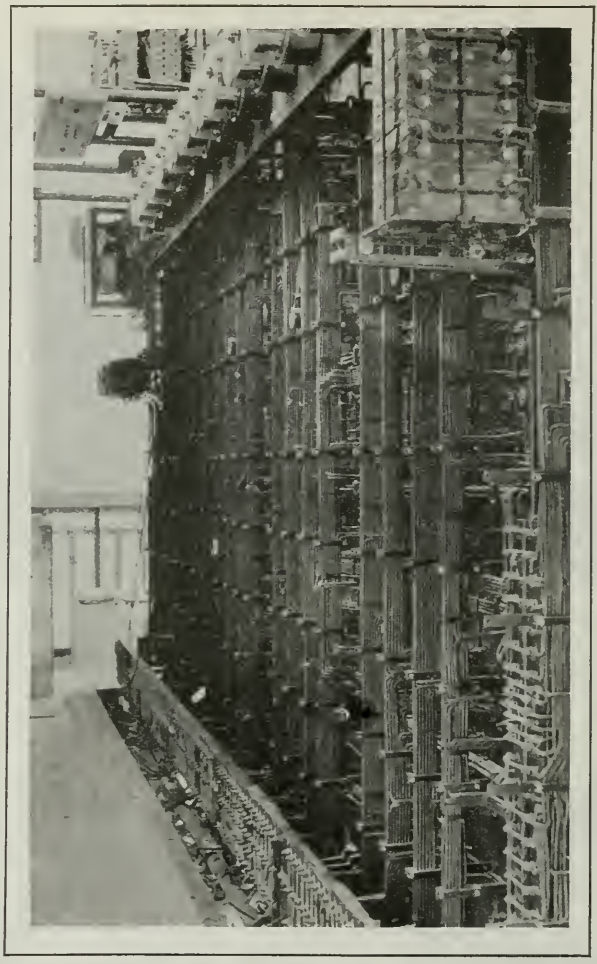


DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER

a. Generating station. Transformers and high-voltage switches
b. Generating station. Interior view

at once under governor control. The generators at this station have solid field poles which permit this manner of placing the machines on the line, as it gives them the necessary high pull-in torque.

Under normal operating conditions, the generator will be shut down by de-energizing the automatic control, which will start the governor to close. At the no-load gate opening, a contact is made which trips out the line circuit-breaker, disconnecting the generator from the system. In event of trouble, the unit will be promptly cleared from the line by relays provided for that purpose.



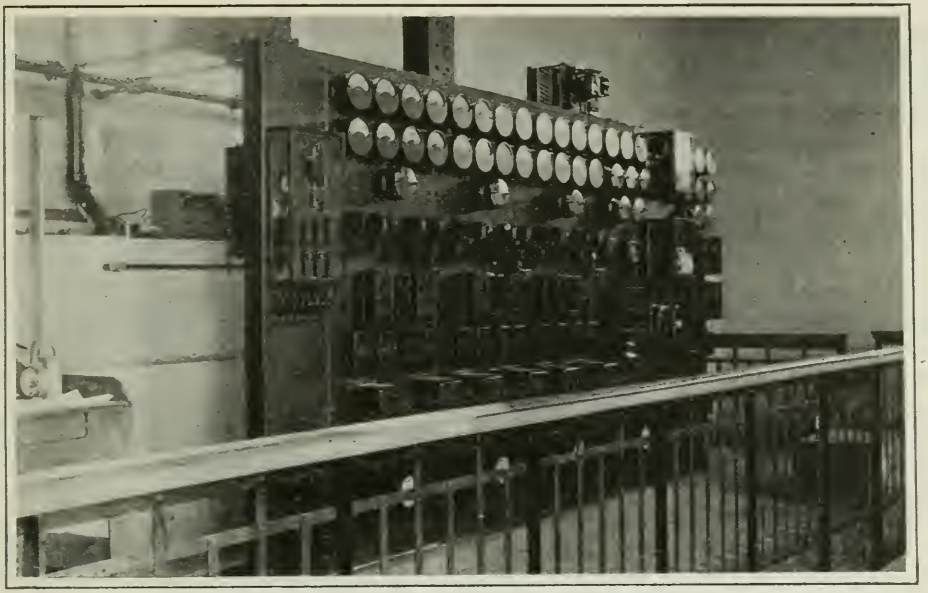
DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER
Generating station. Automatic control board. Rear view

Brakes on the generators will be applied automatically by a mechanical attachment on the governor, the oil-pressure from the governor being used for their operation.

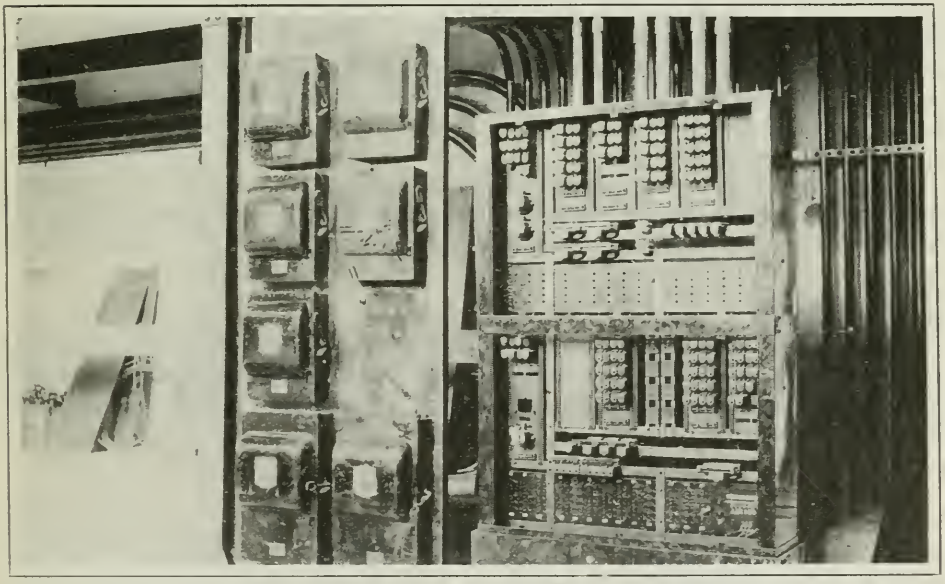
The lubrication of each generator is self-contained. The thrust bearings are water-cooled, and the cooling water is siphoned through from the turbine supply pipes.

The automatic control equipment, together with the meters, are mounted on slate panels and push buttons are provided so that an operator may perform the same operations and have the same control of the equipment as at Ranney Falls. One voltage regulator will control the station voltage and special interlocking devices are provided whereby it can be connected to only one generator at any one time.

A 48-volt battery has been installed for operating the automatic equipment and the two 44,000-volt oil circuit-breakers. It will be charged automatically from any one of the exciters through a special control equipment.



DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER
Generating station. Automatic control board



DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER
Generating station. Supervisory control cabinet

A 48-volt tap will be provided on the existing battery at Ranney Falls generating station to give the required voltage for energizing the supervisory control equipment.

DAM No. 9 GENERATING STATION

As mentioned in the 1923 Annual Report, work on the development at Dam No. 9 is under way. This station will be quite similar in layout to the one

at Dam No. 8 and will be automatic with the supervisory control at Ranney Falls generating station. The generators and low-voltage switching-equipment will be installed in the building while the transformers and all the high-voltage switching-equipment will be located outside.

Plans and specifications for the building and structures, including water, air and drainage systems, have been completed. The building itself, 94 feet long, 33 feet wide and 34 feet high, is of structural steel frame. As the local stone was not suitable, the walls are being built of reinforced concrete. The roof is being covered with tar, felt and gravel with copper flashings and two monitors will be located on top for ventilation. A 15-ton electrically-operated crane was purchased and will be installed in the generator room. An air compressor, lubricating-oil filter and transformer-oil tank have been purchased.

A service section 18 feet 7 inches square by 20 feet high of similar construction to the main building will be located at the south end. All the service equipment, lavatory and battery rooms will be located in this section.

A reinforced concrete platform will be built up for the transformers and other outdoor equipment.

The 1,400-kv-a., 6,600-volt, vertical-type generators with direct connected exciters were purchased from the Canadian Westinghouse Company and will be installed by them.

Three step-up 1,350-kv-a., 3-phase, 6,600/44,000-volt, self-cooled transformers were purchased from the Moloney Electric Company together with three 100-kv-a., single-phase, 44,000/2,300-575-volt service transformers.

The automatic switching-equipment and the supervisory remote control equipment is being supplied and installation supervised by the Canadian Westinghouse Company, and will be practically a duplicate of the equipment at Dam No. 8 generating station.

The Commission is erecting the building and doing all electrical installation work except the generators. The station should be in service early in 1925. A description of the automatic feature is given under Dam No. 8 generating station.

Operator's House

During the year, plans and specifications for a six-room house, including septic tank and drain pit, were prepared and the contract for the erection was let to Mr. James Mitchell, Campbellford, in September. A well was sunk for the supply of water.

Dam No. 9 Construction Station

In order to supply power for the construction of Dam No. 9 generating station, a pole-type station was erected near the site. A 300-kv-a., 3-phase, 60-cycle, 44,000/2,400-volt, indoor-type transformer obtained from Cobourg distributing station was installed in a temporary house and the necessary switching-equipment mounted on the structure. This station was completed and placed in service on December 5, 1923.

RANNEY FALLS GENERATING STATION

Two generator-voltage regulators with overvoltage protective equipment are being purchased for installation in this station.

Equipment has been purchased for the control of a 44,000-volt line which

passes through this station from Heely Falls generating station to Sidney transformer station. This equipment will not be installed until after January 1, 1925, but in the meantime temporary connections have been made whereby the switching-equipment, which will eventually control the line to Dam No. 9 generating station, is being utilized.

The two "GA3" oil switches have been equipped with new concentric-cylinder type muffled vents.

Operation-indicators have been installed on nineteen overload, two over-voltage, and six unidirectional-type relays.

Nassau Feeder in Canadian General Electric Company's Generating Station

In order to permit the interchange of power between the Canadian General Electric Company's generating station at Nassau near Peterborough and the Central Ontario system, the installed equipment of a 6,600-volt feeder in this station was purchased in February from the Canadian General Electric Company. This feeder connects to a 6,600-volt line between Auburn generating station and Lakefield distributing station.

Oshawa Distributing Station

The Commission, on June 11, 1924, authorized the purchase and installation of a 3,000-kv-a. transformer to replace one of the 750-kv-a. units and the rearrangement of the low-voltage equipment. The drawings are being prepared and a 3,000-kv-a., 3-phase, 44,000/2,400-volt water-cooled transformer was purchased. Installation work will commence early in 1925.

NIPISSING SYSTEM

BINGHAM CHUTE GENERATING STATION

The development at Bingham Chute is now complete. The first unit was placed in service on December 2, 1923, while the second unit was placed in service on March 31, 1924.

The installation of the Powassan feeder in the Bingham Chute station was completed on February 1, 1924.

The new operator's house has been completed and both houses are now occupied.

Callander Distributing Station

Authorization was given in February, 1924, for the removal of the 50-kv-a. and 25-kv-a. transformers from service, and the installation of three 50-kv-a. transformers and protective equipment from Powassan distributing station. The work was completed and placed in service on October 19, 1924.

TABLE OF TRANSFORMING STATION DETAILS

In Appendix II are given in tabular form data respecting all transforming stations owned or operated by the Hydro-Electric Power Commission of Ontario on October 31, 1924.

SECTION VI

TRANSMISSION SYSTEMS

NIAGARA SYSTEM

The heavy steel-tower lines which were under construction in 1923 were completed and placed in service during the early part of the year, thus completing the necessary additional circuits from the new generators at Queenston.

A 110,000-volt wood-pole line is under construction between Oil City and Sarnia. This line forms part of the St. Thomas-Sarnia line and will operate temporarily at 26,400 volts.

On the right-of-way in the Niagara peninsula, fencing operations have been carried on throughout the year.

By the construction of nine miles of 26,400-volt line between the town of Essex and Puce Junction a complete loop has been made for the supplying of power to the stations on the Essex County system. This line connects at Puce Junction with the line supplying Belle River and the portion between the junction and Essex high-tension station has been re-strung with conductor capable of carrying the new loads. Additional air-break switches have also been installed on this system so that each municipality may be fed from two directions.

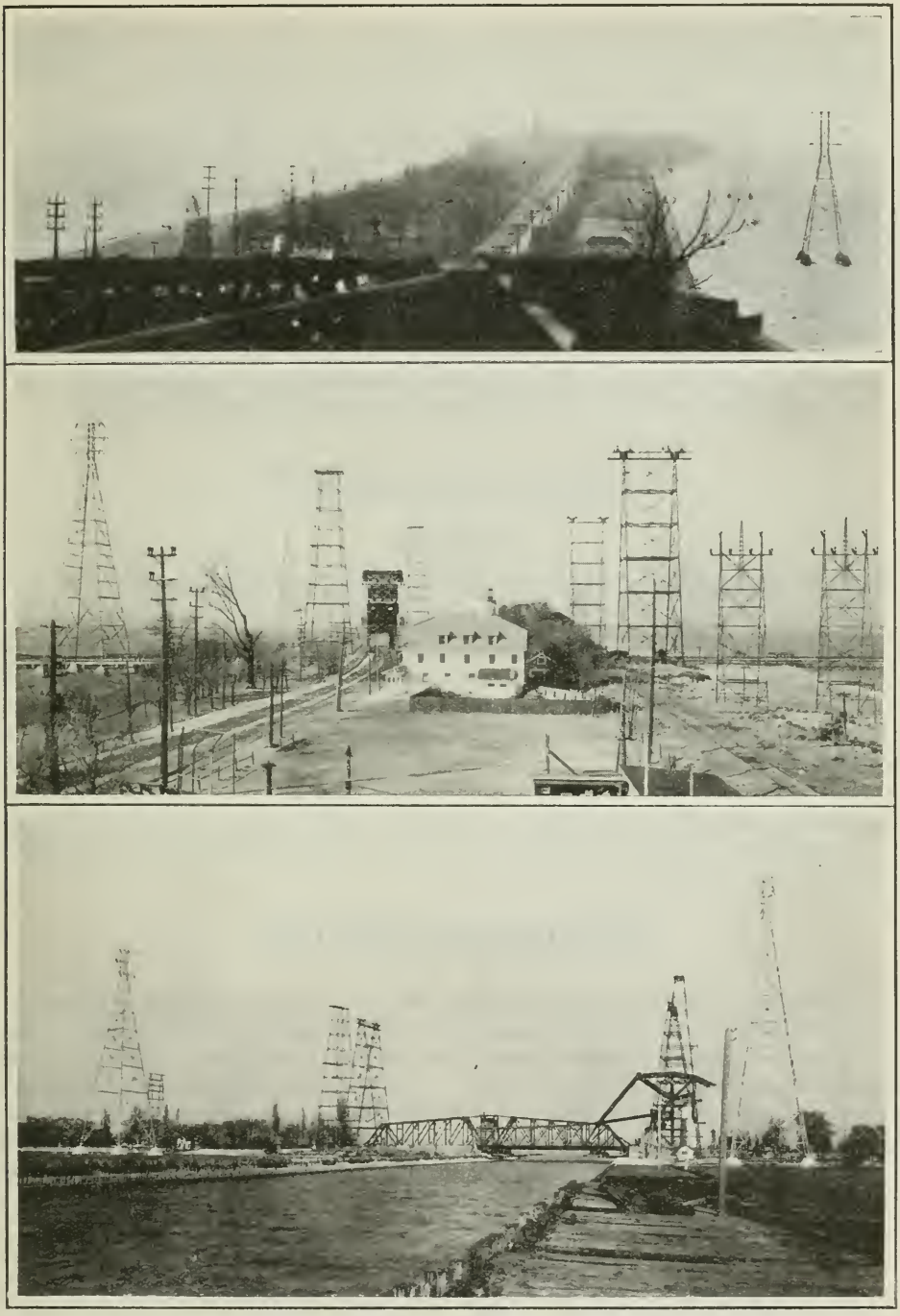
In the Essex peninsula, a line has been constructed to a new substation in the town of Sandwich and a new line to the Walkerville station.

A 26,400-volt line was also extended north from Seaforth to a station at Walton.

Extensions were made to the 13,200-volt system to supply power to stations at Decewsville, Broughdale, Mimico and Waterdown.

A 12,000-volt line has been constructed to a new station near St. Davids and the line from St. Davids to Niagara-on-the-Lake has been extensively overhauled.

In the Toronto district two circuits of 190,000 c.m. copper have been erected on Yonge street to York Mills and alternative methods of supplying power to the Leaside district were provided by the construction of a short line between the Canada Wire and Cable Company and the Canadian National Railways shops at Leaside.



TRANSMISSION LINES, NIAGARA SYSTEM—BURLINGTON BEACH

a. General view of power lines looking south from bridge
b. Hydro, Dominion Power and Toronto Power transmission lines showing towers at canal crossing
c. Looking east along the canal showing canal-crossing towers

TRANSMISSION LINES, NIAGARA SYSTEM—BURLINGTON BEACH
Hydro, Dominion Power and Toronto Power transmission lines looking north from bridge

GEORGIAN BAY SYSTEM*

combining

SEVERN, EUGENIA AND WASDELLS SYSTEMS

A 38,000-volt line has been completed from Waubaushene to South Falls providing for the interchange of power between these two points. The town of Gravenhurst will be tapped on this line and when this latter station is in service, use of the 6,600-volt line between South Falls and Gravenhurst will be discontinued.

Early in the year the 22,000-volt line to Meaford was placed in service. This line is connected to the Eugenia-Collingwood line.

Telephone conductors between Mt. Forest and Durham on the Eugenia division were replaced.

THUNDER BAY SYSTEM

Considerable work was done during the year on this system. A double-circuit 110,000-volt steel-tower line, with one circuit up at the present time, was erected between Nipigon generating station and Reserve Junction and between Sprucewood and Bare Point, a total distance of 62.1 miles. To serve the Great Lakes Paper Company at 110,000-volts, 14.2 miles of line were built, part steel-tower construction and part wood-pole. To serve the Nipigon Fibre Company at Nipigon village, a 3-mile, 110,000-volt, twin-pole line was built from Reserve Junction. All of the above lines are now in service.

CENTRAL ONTARIO AND TRENT SYSTEM

The construction of generating stations at Dam No. 8 and Dam No. 9 on the Trent river necessitated the building of 44,000-volt lines in this district. A new 44,000-volt line was constructed from Dam No. 10 to Dam No. 9 and

*Consult also page 21.

continued to Dam No. 8. Connections were also completed from the Heely Falls-Trenton line to Dam No. 8 and the portion of the former line from this junction to Trenton has been re-built and a second power circuit erected. This second circuit is connected directly to the station at Dam No. 8. From Ranney Falls, a new line was also constructed to intersect the lines supplying the Campbellford Pulp Mill and this latter line from the junction to the pulp mill tap was re-strung with heavy conductor so that the power generated at Dam No. 8, Dam No. 9 and Dam No. 10 may be transmitted over line "G" to Belleville, or over line "R" to Sidney terminal station at Trenton.

A pole line carrying a 20-pair cable was built from the generating station at Dam No. 10 to Dam No. 9 and a 10-pair cable extended to the station at Dam No. 8. This cable will be used for controlling, from the station at Ranney Falls, the new generating stations known as Dam No. 8 and Dam No. 9.

The 44,000-volt line from Auburn generating station to the new station on Dalhousie street, Peterboro, was completed and placed in operation.

NIPISSING SYSTEM

The 22,000-volt line was completed and placed in service this year, making connections from the new generating station at Bingham Chute to intersect the existing line near Powassan. New air-break switches have also been erected at junction Z-52 which is the intersection of the lines from Nipissing generating station and Bingham Chute.

SECTION VII

THE LABORATORIES

The functions of the Laboratories department, as described in previous reports, are testing, research and inspection of materials and equipment.

The staff and equipment are at the service of the municipalities in connection with all problems coming within the scope of these functions.

This year has seen a marked increase in volume in the work of several sections of the Laboratories; the total volume of work has also shown an increase.

The volume of commercial testing has shown a satisfactory growth, particularly in the Meter and Standards laboratory.

The department has continued in its co-operation with the technical committees of the engineering and standardization bodies upon which it is represented.

An extensive programme of research in concrete was begun during the year and very gratifying progress has been made.

In August the department had the honour of entertaining a number of distinguished scientists and engineers who were in attendance at the meetings of the British Association for the Advancement of Science and the International Mathematical Congress.

Among the items of equipment added special mention is made of an Amsler calibration box of 100,000 pounds capacity. This is available to laboratories desiring a calibration of their tension and compression testing machines.

High Tension and General Electrical Testing Laboratory

Routine Testing

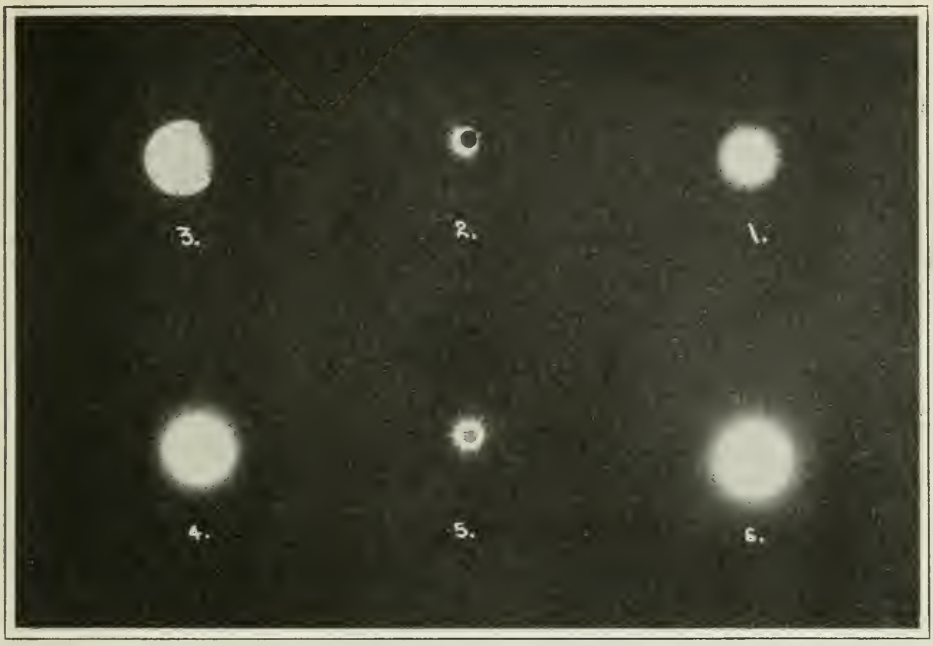
The routine work of this laboratory has followed along the lines indicated in previous reports. This includes the regular testing of transformer oils, rubber gloves for linemen's use and such pieces of equipment as are transferred or repaired, insulators, and other materials used in electrical construction, motors, generators, etc.

Equipment

The equipment available is fairly complete for the range of work usually done in the laboratory and additions made are usually of minor magnitude and in most cases of a very special character as dictated by some investigation in progress.

The insulator-testing device noted in the preceding report has been developed to the point of being an assured success and there has been incorporated therein a principle of operation not hitherto found in any testing equipment used for the purpose. It has been given a field test with satisfactory results.

A portable high-voltage direct-current testing set has been assembled for



HIGH-TENSION LABORATORY
Klydonograph records of surges due to switching. The diameter of the spot is a measure of the voltage. Nos. 2 and 5 represent normal voltage

testing insulation and measuring insulation resistance where the electrostatic capacity of the apparatus is high. For field use this set is almost ideal.

Special Problems

During the year there was occasion to make use of klydonograph records in the detection of over-voltage surges on power lines. The availability of such records increases to some appreciable degree the confidence of the engineers in their over-voltage factors of safety and very practical use of them has been made in investigations of abnormal conditions.

A rather extensive study has been made of transient-voltage phenomena in circuits with the aid of oscillograph and klydonograph records. Certain limiting features of operation have been discovered which it seems advisable to avoid. The effect on the voltage waves of arcing-grounds and of imperfect operation of switches has been studied.

Further attention has been given to developing methods of locating faults in underground or other concealed conductors under various conditions of operation. Such developments require the closest co-operation of all departments interested to assure success. An experimental study has also been made of a new method of generating alternating current of suitable wave form for special test work. Occasionally it is found that methods may be used to advantage which are far from being orthodox according to generally accepted notions.

Commercial Tests

The facilities of the laboratory have frequently been made use of by manufacturers and individuals confronted by special problems requiring tests or investigation.

Approval Laboratory

A considerable increase in the volume of work handled by this section over that of the previous year may be noted.

Applications for approval report to the number of 225 were filed, of which approximately one-half were received from new submittors or were for new lines introduced by submittors already carrying approval service. One hundred and seventy reports were completed and 208 white card summaries of these reports were issued. Applications for listing devices approved by the Underwriters' Laboratories also increased and green cards to the number of 139 covering these devices were added to the approval record. The approval record now consists of 1,125 cards of which 520 are card summaries of reports issued by the Commission.

Devices Submitted

As in other years heating appliances form the largest group of devices submitted, wiring devices being the next largest, with motor-operated devices very closely behind in point of number. There has been sustained activity in the production of electric hair-dressing devices, with an improvement in the quality of the articles as a result of reports made by the Laboratories on samples submitted.

Radio Equipment

The ever-increasing sale of radio equipment is reflected in the number of rectifiers for charging small storage batteries, soldering tools of a light type and lightning arresters for the protection of receiving sets which were submitted for approval. Most of these devices have been submitted by manufacturers in the United States.

Portable Lighting Devices

In August a specification, No. 17-2, was circulated to dealers and manufacturers in portable lamps together with a notice requiring all manufacturers to submit samples for approval. At the close of the year these samples were just beginning to arrive so a more detailed report in this regard will be made at a later date.

Approval Manual

The amendment to the Power Commission Act, Chap. 23, Section 17, 1924, made it advisable and necessary to rewrite the Rules respecting approval of electrical equipment and to issue such new regulations as were provided for by the new act. This was done and the approval of the Lieutenant-Governor-in-Council obtained on July 2, 1924, for Rules and Regulations respecting Inspection, Test and Approval of electrical equipment. These rules, together with the Act and the revised Outline of Procedure and Schedules of Charges, were therefore printed in a new pamphlet entitled "Approval Manual, July, 1924" and have since been distributed to supersede the previous "Manual" dated August 22, 1923. The new rules provide for the punishment of persons disposing of, or using, electrical equipment which has not been approved or if approved, is being used or may be used in a hazardous manner. With this authority it is hoped that a more rigid check will be possible on unapproved articles which have in the past been imported and sold directly to the retailer or to the consumer.

Follow-up Service.

The natural growth of the re-examination service following upon the increased number of devices reported and approved by the laboratory has made it necessary to supplement the work of the Laboratory Inspector with part time of another man. It is now necessary to visit annually some forty towns or cities in the United States in addition to the follow-up service now given in Ontario and Quebec.

Meter and Standards Laboratory

While the Meter and Standards laboratory has enjoyed one of the busiest years since its organization, it cannot be said that there have been any radical changes in the nature of its activities or that the general matter to be reported has materially altered from that of past years. The work has been well balanced among the various types to be found in a laboratory of this nature; and all phases of metering,—commercial and technical,—have received their due share of attention. Some of the more interesting aspects of this work are noted in the following paragraphs.

Standard and Portable Instruments

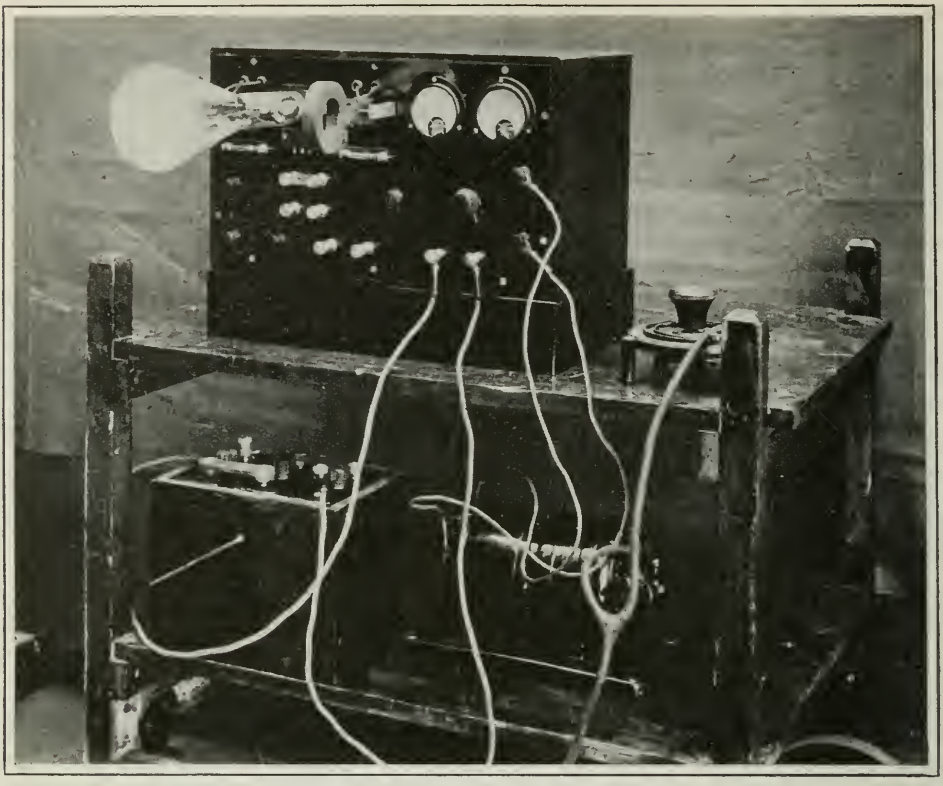
With the ever-increasing magnitude of the Commission's power loads and the corresponding need of extreme precision in the regular measurement of these loads, it has been found necessary to maintain the closest co-operation between the Standards laboratory and those departments having such measurements in hand. By a continual comparison and interchecking of portable instruments with the laboratory standards, and the periodic reference of the latter to the primary standards, practically all sources of controversy have been removed, and a satisfactory agreement maintained among all meters, from the great multiple-element totalizers in the generating stations to the service meters on the most insignificant loads.

Commercial Tests

Hydro municipalities and electrical manufacturers have continued to show their appreciation of having available a laboratory wherein both minor repairs and calibrations of instruments could be performed. While this laboratory does not in any sense attempt to usurp the prerogative of the Dominion Government Laboratories, which constitute the only legal authority of accuracy on all matters appertaining to measurement, the presence of a readily accessible and well-equipped instrument laboratory has proved a great convenience to the users of metering equipment, particularly in Toronto and the district immediately adjacent, and many portable instruments have been adjusted and calibrated for customers outside the Commission's immediate organization, for use in their general testing work. Besides the general run of portable instruments, a considerable number of switchboard instruments from local power plants have been examined, overhauled and adjusted, both in the Laboratories and in their permanent locations.

Oscillographic Studies

The volume and variety of tests wherein oscillographic observations have been made is greater than in any previous year. Of course, most of the work upon which the oscillograph is applied is composed of tests under the immediate direction of some other department; so that, from the standpoint of the Meter and Standards laboratory, it can only be referred to as the performance of a



METER AND STANDARDS LABORATORY
Cathode ray oscillograph, used for electrical investigation of many kinds

desired measurement, the data from which are turned over to the engineers particularly interested in those particular tests. In a series of investigations carried out by the High Tension and General Testing laboratory, with a view to determining the causes of breakdown in underground cables supplying rural communities, the oscillograph found a wide application, both within the Laboratories on "artificial" circuits, and in the field under actual operating conditions. A study conducted by the same laboratory on the burning of generator stator coils, was well rounded out by records obtained from this instrument; and a large number of records was also made to demonstrate the performance of types of transformer primary cutouts under development.

Short-circuit tests have been performed upon large power-house generators as these went into service; and as the records from these tests accumulate from year to year, there becomes available a constantly increasing mass of engineering information of great value. Among the minor oscillographic studies carried out in the laboratories may be mentioned an examination of the wave forms of three 500-cycle generators, to determine which would be the most suitable for certain tests on telephone conductors, tests upon a commutating interrupter for cable tests, and an investigation of the performance of an electrically maintained tuning fork used in accurate measurement of time.

A cathode-ray oscillograph tube has been acquired for use in special tests where the available energy of the investigated quantity is very small or the

frequency is above the range of the ordinary oscillograph; and this has been provided with a permanent mounting in a portable form, so that it may readily be carried to any part of the system where investigations are in progress.

New Developments

The laboratory is at present engaged upon the development of a number of new methods of measurement, which should prove of considerable value in electrical work. One of these is a method of measuring and permanently recording the speeds of machines under test, with particular reference to large generators and turbines during deceleration and in investigations of governor performance. Another is a system of totalizing a number of individual blocks of power measured at separated points, and obtaining a record upon one centrally located metering instrument. A very simple and effective timing device has been constructed for puncturing by means of an electric spark the paper chart of a graphic meter at predetermined intervals, so that accurate time determination is available on high speed records, such as those obtained in measurement of water flow by the salt-water-velocity method.

Watthour Meters, etc.

The work of overhauling, testing and adjusting watt-hour meters has continued of a very steady volume throughout the year; and while there is nothing radically new to report in this branch of the laboratory's work, its nature has been such as to materially improve the load factor of the department and provide a reasonable source of revenue. The expension of the system of direct distribution of power in small units to rural consumers has resulted in a considerable increase in the number of watthour meters passing through the laboratories, particularly for sealing by the Government inspectors.

Several new types of watthour meters have been submitted for acceptance tests; but, with the exception, perhaps, of a very effective temperature compensation upon one make, it cannot be said that any new principles or radical improvements have made their appearance. The tendency is, as previously reported, toward lessened costs of production and toward increased overload capacity, with a general leaning to compactness and lightening in weight of all parts. European meters appear to be gradually approaching the standard practices of the Canadian and American types.

A new ampere demand meter operating upon the thermal principle has been examined and tested; and as it is applicable to three-wire services and comparatively low in cost, it should find a considerable field of application in the metering of residential and commercial services. A number of improvements in graphic meters and protective relays have been investigated and reported upon.

Instrument Shop

Except in magnitude, it cannot be said that the work of the Instrument Shop shows any great change from that mentioned in earlier reports. While the volume of work has increased, little or no addition to the shop equipment has been found necessary. This department has functioned actively in practically all the development work of the laboratories and has turned out a product quite in keeping with the highest standards of experimental engineering. In addition the normal amount of maintenance on laboratory equipment has been performed, and a large number and variety of test specimens for the Structural Materials laboratory prepared.

Photometric Laboratory

Inspection of "Hydro" Lamps

The work of the Photometric section of the laboratories is principally that of maintaining the quality of Hydro lamps at the required standard. This is accomplished by means of regular inspection and tests by a resident inspector at the factory, supplemented by life tests of representative samples of lamps at the laboratory. Because of this, the work is largely a continuation of work already described in previous reports, except for special tests required from time to time.

Life Testing

The number of life test samples forwarded to the laboratory has taxed the capacity of the life test apparatus which has been operated at full load continuously throughout the year.

Vibration Tests on Lamps

In addition to the regular tests of lamps, a series of tests was conducted to determine the relative merits of ordinary and mill-type lamps under severe vibration. For this purpose a machine was constructed that subjected the lamps to rapid vibration similar to that of railway service only very much more severe. The lamps subjected to the tests were burned for 200-hour periods on the life-test racks after which they were given the vibration tests. The number of lamps failing under vibration after each burning period gave an indication of the ruggedness of construction. This test established conclusively that the mill-type lamps are far superior to the ordinary type, of corresponding size, in their ability to withstand vibration.

Vibrations were also applied to coach-lighting lamps for one of our trans-continental railway systems.

Commercial Tests

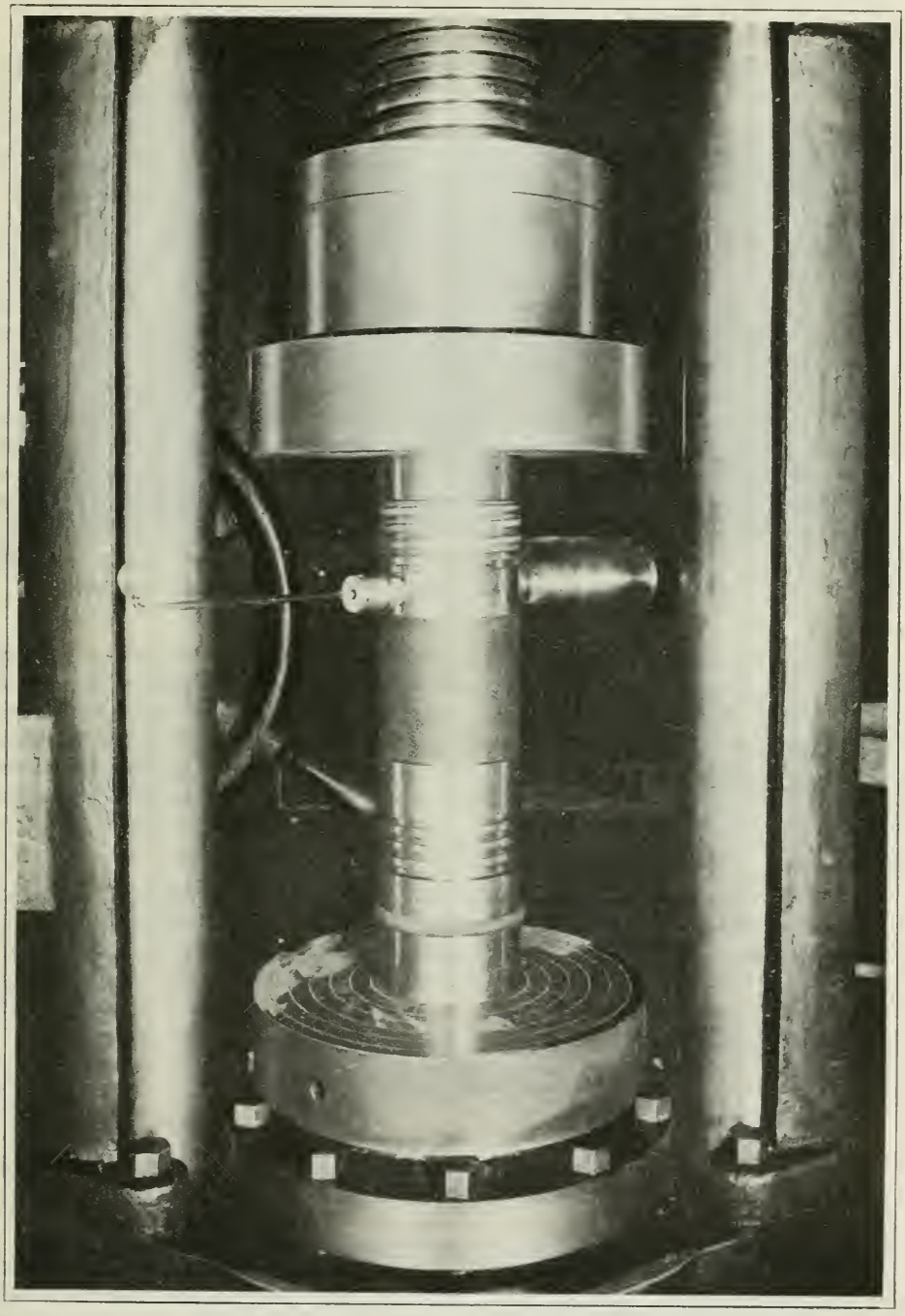
Some manufacturers of lighting equipment have availed themselves of the facilities of the laboratory to determine the efficiencies of new designs and types of equipment. These include both interior and street-lighting units.

Headlight Tests

This laboratory rendered assistance to the railway department of the Commission in the testing of headlights for radial railways. An extended series of tests was made to determine the beam characteristics of several sizes and types of reflectors, and lamps. The object was to obtain the best light for the operation of the car with a minimum of glare to endanger motorists driving on adjacent highways. Some tests of automobile headlight devices were made for the Ontario Department of Public Highways and other parties.

Equipment

During the year a portable photometer was added to the equipment of the department. This instrument, which is of a late type, has proved valuable for making surveys of lighting installations.



ENGINEERING MATERIALS LABORATORY
Amsler calibration box mounted in testing machine. See text

Engineering Materials Laboratory

Routine Testing and Inspection

This section has had a very active year in all branches of its work. The busy construction season just past has resulted in a large volume of routine testing and inspection of different engineering material and structures. In addition to this the decision to proceed with further research on concrete has increased the amount of testing to be done.

Research

The research work on concrete forms part of a five-year programme covering questions of direct economic importance to the Commission which are not being studied by the regular research agencies. For the year just past attention has been confined almost entirely to questions of the permanence of concrete when exposed to the severe conditions common to hydro-electric power plant structures. Concrete is without question the most convenient and economical structural material for this class of construction, but in common with all materials it is subject to deterioration, more or less rapid, depending on its quality and the exposure to which it is subjected. The Commission has an increasing investment in concrete structures, and it was felt, therefore, that a thorough understanding of the processes of disintegration would be of great importance both in the construction of concrete highly resistant to disintegration and also in correcting those troubles that may appear in concrete already in place.

Metals

Experience in the testing and inspection of metal products such as castings, forgings, etc., has shown that microscopic examination of polished specimens is one of the most useful means of judging the quality of these materials. Accordingly, microscopic examination now forms a regular part of the inspection of all steel castings and forgings, in addition to its use in studying the causes of failure and low quality in such materials as iron and bronze castings, structural steel, pipe, rails, welded joints, etc.

Equipment

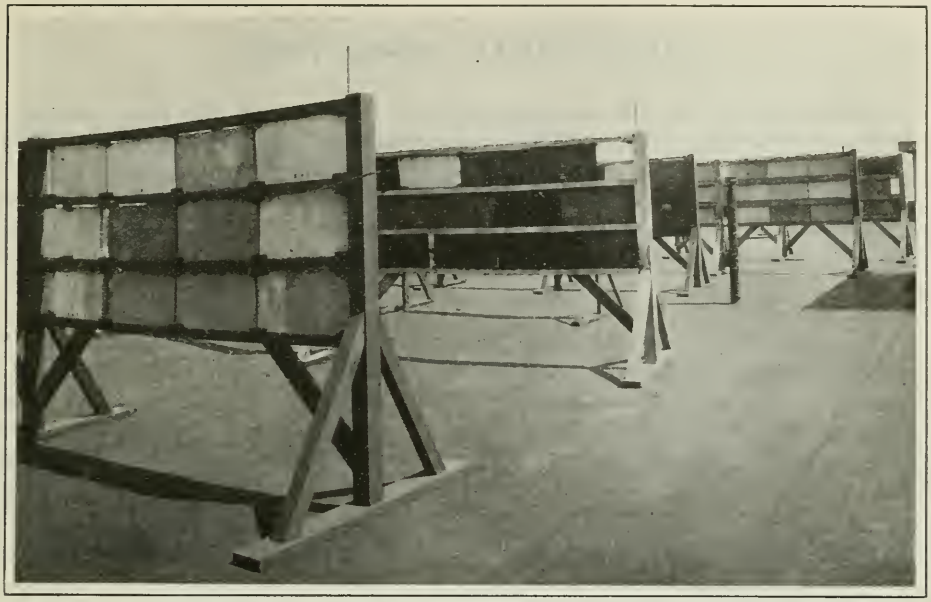
An Amsler calibration box has been added to the equipment to permit frequent calibration of the four testing machines in the laboratory. This apparatus has a capacity of 100,000 pounds in both tension and compression and is a marked improvement over the ordinary proving levers which were in the past the only means available for checking the accuracy of the testing equipment.

Chemical Laboratory

The work here continues in the same manner as in the past, but in increasing volume. A wide variety of work is carried out covering almost the entire field of analytical chemistry. As usual paints and oils receive special attention.

Paint

Three major series of tests were carried out on paints. The first was on concrete floor paints. Twenty-four of these were placed on a strip of floor at the Queenston powerhouse. At the end of six months eleven of these had completely failed, ten were showing indications of giving out and only three were in entirely satisfactory condition. The second series was on water paints and comprised nineteen different materials. These were classified into three



CHEMICAL LABORATORY
Paint tests. Slabs treated with the paints under test exposed to the weather on the roof of the laboratory

classes,—superior quality, average quality and poor quality. Four fell in the first class, eight in the second and seven in the third. The first two classes comprise paints that are all serviceable under certain conditions, and the third class comprises paints which would not be considered for use. The third series was of paints for under water and for service involving exposure to air and water alternately. In this series twenty-eight different paints were painted on 6 x 48 inch steel panels and placed in a suitable location at the Ontario Power Company. These paints have only recently been placed under test and no results on their serviceability are yet available. Besides the tests just described other smaller series have been run on luminous paints and on roofing cements, while about thirty samples have been tested in the routine examination of paints purchased.

Transformer Oils

A considerable amount of study has been given to the problem of deterioration of transformer oils in service, and more particularly to their sludging. It is too soon to form any conclusion as to the success of this work but the results to date are promising.

Photographic Branch

No new development worthy of special mention has occurred in the work of this branch. The volume of routine photographic and blueprinting work remained at about the same level as last year. Periodical visits to Niagara Falls were continued; a special series of photographs illustrating rural applications of electric power was made, and the work of renewing the identification cards was begun. In addition to routine work a considerable number of enlarging and copying orders were received, as well as several orders for lantern slides.

ELECTRICAL INSPECTION

The work of the Electrical Inspection department has been somewhat less during the past year, reflecting the relatively quiet industrial conditions which have prevailed throughout the Province. As compared with the previous fiscal year the receipts were about 8 per cent lower, the number of permits issued was 90,497, a decrease of about 1 per cent, and the number of inspections made was 176,108, a decrease of about 3.5 per cent.

Defective Installations

In connection with its inspection work recommendations are made by the department in the case of installations which do not comply with the standards required in the interests of general public safety. The public, as a whole, recognizes the value of the recommendations made and has shown a willingness to co-operate by making the necessary changes and re-wiring defective installations. This year the amount which it is estimated has been expended by various consumers on this class of work exceeds $480,000, an increase of 33 per cent over that of 1923.

Rules and Regulations

The work of revising the Commission's Rules and Regulations was completed and a new revised edition (the Seventh) was published. This revision was very thoroughly carried out and the whole book was brought up to date. It is gratifying to record, therefore, that this revision has been found to be very satisfactory in practice and some of the rules, for example, that permitting the use of 15-ampere fuses on branch-lighting circuits (i.e. to protect No. 14 B. & S. gauge wire) instead of 10-ampere fuses as formerly, and also the rule allowing the use of single-pole and double-pole fuses and switches on two- and three-wire circuits respectively, tend to reduce the cost of installation work and are, therefore, of distinct advantage to the community.

SECTION VIII

ELECTRIC RAILWAYS

ESSEX DISTRICT RAILWAYS

Way and Structures

During the past year further rehabilitation of the system was proceeded with in order to bring the remaining parts of the system (which had not previously been covered) up to normal operating efficiency.

On the interurban lines over 11,000 treated ties with tie-plates were installed, and several miles of crushed stone ballast were laid, thus completing rock ballasting of all open track construction on both Tecumseh and Amherstburg interurban lines, with the exception of about three miles through Ojibway.

The section of double track westerly from the Windsor city limits to Patricia avenue in Sandwich was excavated and new ties and rails were installed where necessary. All joints were welded, and the track was rock ballasted with macadam binder and placed in good operating condition.

Extensive repairs were made on the Windsor car barns, including the replacement of practically the entire wall of the most westerly barn.

A very considerable amount of new work was performed over the entire system, the more important items being the following:—

In Sandwich on Sandwich street two complete "blocks" of signals were installed, extending from Brock street to Spring's loop.

On Wellington street, Windsor, a new open-track passing siding, 350 feet long, was constructed near London street.

To improve the service on Ouellette avenue the single track extending from Maple street to Ellis street was removed, and replaced by double-track construction with 80-lb. A.S.C.E. section rail, 60-feet long, laid on twin-steel ties imbedded in concrete, with trap-rock concrete wearing surface.

Owing to the necessity for increased office facilities, a frame addition to the rear of the second storey of the superintendent's office on London street was constructed. This added two rooms to the accommodation.

To improve the power conditions on the line, a 500,000 c.m. double-braided weather-proof cable was erected, extending from the Salt Block substation via London street and Ouellette avenue to Erie street.

Arrangements were concluded with the city of Windsor for the erection of combination light and trolley steel poles, on London street, from Ouellette avenue westerly to the Windsor city limits. This work is now being carried out.

The new double-track line replacing the Erie Avenue bus line, which operated on Erie street, Parent avenue, and Ottawa street to Lincoln road, was completed in the autumn of 1923, and immediately put in operation. Standard track construction with 80-lb., A.S.C.E.-section rail, 60-feet long was laid throughout, with the exception of the portion through the special track work,

and on Parent avenue. On the latter open construction was adopted, on creosoted ties with tie-plates. Owing to the town of Walkerville not being ready to proceed with the street widening of Ottawa street, the projected extension from Lincoln road to Walker road was deferred.

With the construction of the Erie-Ottawa double-track line, the trackless trolley bus line on Erie street, Langlois avenue, Ottawa street, Gladstone avenue, and Giles boulevard was discontinued, and the overhead construction was revised to provide for the new conditions.

On account of rapid growth of population in the outlying section of Walkerville, south of Tecumseh road, the trackless trolley line was extended via Byng road, Lens avenue and Turner road to Vimy avenue, which is now the terminal of that line.

On Ottawa street in Ford City two passing sidings were constructed at Strabane avenue and Pillette road. Each siding is 500 feet long, of 60-lb. relay rail, on treated ties with tie-plates, and crushed stone ballast.

The automatic, block-signal system which was installed in 1922 on Sandwich street, between Ouellette avenue and the Ford "Y", was extended to Pillette road in order to take care of the extended city service and protect the movement of cars between the two new sidings which were constructed on Ottawa street at Strabane avenue and Pillette road.

The town council of Riverside requested the Commission to remove the street railway tracks from the north side of Ottawa street to a double-track reservation in the centre, which extended easterly from the western town limits for a distance of 7,000 feet; the town assumed the cost of removal and the work was proceeded with upon completion of the sub-grading by the municipality.

A new copper telephone line from the car barns to Tecumseh was erected to replace the old line which had outlived its usefulness.

An agreement was concluded with the Essex county council whereby the Commission agreed to move its tracks at Sunnyside, to the new right-of-way purchased by the county, thus eliminating the sharp curve formerly existing at this place. The work is now proceeding, and when completed will materially improve the line. A standard shelter was also erected at this point.

The trestle approaches to the steel spans crossing the Canard river were filled in, and after settlement has taken place the timber decking will be removed.

A joint wood-pole line 35 feet high was constructed carrying the railway and rural power lines from Stop 69 to Stop 79, Amherstburg division.

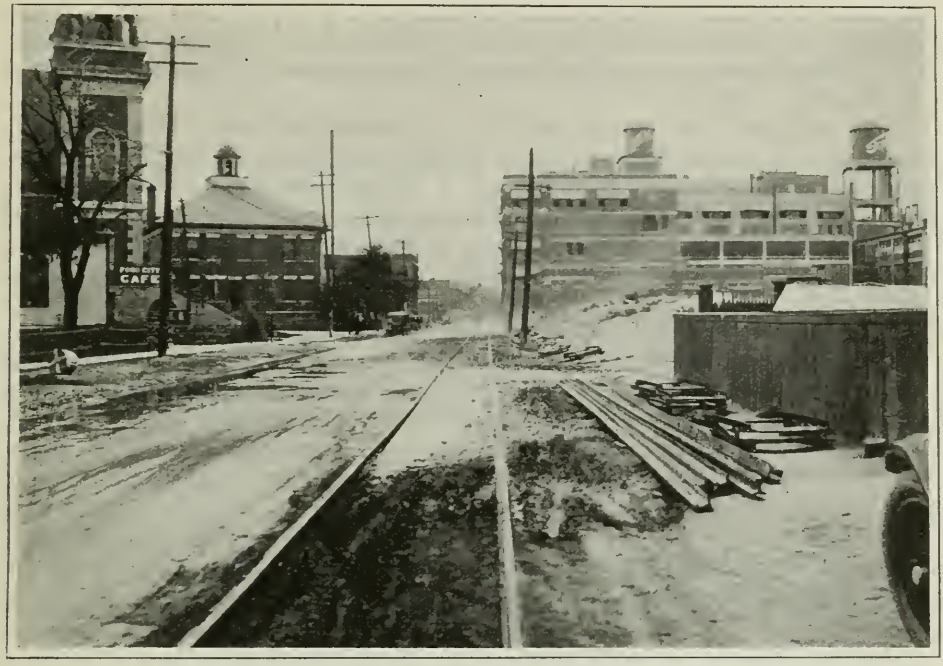
Serious erosion by the Detroit river of the highway, near Amherstburg, upon which the railway is situated, led to the matter being taken up with Essex county council; an agreement was reached whereby the County and the Commission each assumed one-half the cost of placing rip-rap along about 750 feet of shore line. The work was handled by dumping large stone from cars on the railway.

Following the consummation of an arrangement respecting the handling of express business, an extension to Amherstburg station was constructed to provide increased facilities.

A one-half-ton service truck was added to the Way equipment to facilitate the movement of small supplies.

The overhead truck in service having outlived its usefulness was replaced by a modern 2½-ton truck, with air-lift hoist, and modern equipment.

A resolution was passed on October 5, 1923, by the Transportation committee of the Border Cities Joint Board, requesting the Commission to prepare



ESSEX DISTRICT RAILWAYS
Sandwich Street, Ford City, before rehabilitation

ESSEX DISTRICT RAILWAYS
Sandwich Street, Ford City, after rehabilitation

a report and plan, respecting the feasibility and probable cost of a subway or bridge connecting Wyandotte street, Walkerville, to Ottawa street, Ford City. A report was accordingly prepared and presented to the Border Cities Joint Board on April 11, 1924.

Two schemes were submitted, with a recommendation, that the route be adopted via a new diagonal street from Wyandotte street to Edna street, thence via Edna street to Ottawa street. This scheme involved two subways under the P.M.R. and C.N.R. It was suggested, owing to the magnitude of the work, that it be proceeded with as conditions warranted, and that any public works affecting the scheme should be made to conform to the recommended route.

The Joint Board adopted the recommendation, and arrangements were made shortly after by the Walkerville council to open up Wyandotte street extension, as proposed, in order to permit the Commission to proceed with the double-tracking programme, and to insure that the new track would not have to be torn up and relaid if and when the larger scheme should be put into effect. Ford City council also defined a building line on Edna street conforming to the proposed limit of the suggested new thoroughfare. Immediately this matter was definitely decided upon, and purchase made of the necessary right-of-way the Commission commenced to construct its tracks according to the approved plan and the work is now in progress.

Equipment:

The additional car service supplied on these railways since they were taken over by the Commission has made it necessary to arrange for further substation equipment. A suitable lot has been purchased on McDougall avenue, adjoining the Windsor municipal substation, and a temporary galvanized-iron building is being erected in which will be installed one of the 500-kw rotary-converters that was formerly used on the disposal railway of the Queenston-Chippawa power development. This machine will be placed in service during the next few weeks in order to help out the steam-driven plant on Sandwich street west. The temporary building has been made large enough to accommodate a second converter and the question of constructing a permanent building will be held in abeyance for a year or two, it being anticipated that an automatic station with two 1,000-kw rotary-converters will later be required for supplying the load in the central portion of the Border Cities. The smaller machine will thereupon be moved to the outlying districts to take care of the anticipated growth in such sections.

Provision is being made for the erection of necessary feeders from the McDougall Avenue substation, more particularly to the south-east section of Windsor and Walkerville, in order to give a better supply of power to the trolley bus routes operating through that territory.

The eight double-truck, double-end motor cars, mentioned in last year's report, were delivered during the summer and have proved very satisfactory in handling the heavy peak loads encountered on the city sections of this railway. These cars are equipped with the latest apparatus and are arranged to operate in trains of two or three cars; this feature will no doubt prove very desirable.

The Commission has had some difficulty in supplying two modern-type cars suitable for the Amherstburg division, as practically no equipment of this type has been built in Canada. The cars provided have short single-door vestibules and are divided into the main and smoking compart-

ments. The trucks and motors are considerably heavier to give improved riding qualities and to permit high speeds to be maintained on the interurban sections. Delivery of these two cars is expected in the next few weeks.

Operation

The Commission is pleased to report a continued increase in revenue for the Essex District railways in spite of the fact that many of the industrial plants were working on short time. The condition of the automobile industry was one of retrenchment, and this condition was reflected in quite a number of local plants. It will be noted in the accompanying graphs that the revenue continues to increase yearly at a very satisfactory rate and that the operating expenses per car mile show a slight decrease. The passenger revenue shows an increase of $86,674.19, but the freight revenue shows a decrease of $6,480.00. The gross revenue for the year was $774,907.11 as compared with $688,416.00 for the year ending October 31, 1923. This compares with a gross revenue of $377,000.00 in the year 1919, which was the year previous to Hydro operation. The net operating revenue was $186,248.78. The surplus for the year ending October 31, 1923, was $34,463.00. The surplus for the year ending October 31, 1924, is $13,980.33.

While the surplus is not as large as for the year of 1923, considerable sums of money were expended in construction work which was charged to maintenance. Notwithstanding the fact that 70 per cent of the track and overhead in this district has been rebuilt, approximately $63,000 was spent by the Operating department in renewing and rehabilitating track and overhead on the balance of the line, and over $50,000 on maintaining and rebuilding car bodies and trucks. The line is now in first-class condition, the interurban lines being all completely rock ballasted and the city lines being brought up to a high state of repair. Automatic block signals on the Tecumseh division have been extended to the Ford City limits, resulting in improved operating conditions. An all-night service was established in Windsor, Walkerville, Ford and Sandwich in August. This service has been of great advantage to the residents of that section, and the revenue has been more than sufficient to take care of the cost of operation. The number of passengers carried for the year, on all lines, was 13,330,081, being an increase of approximately one million over the previous year. The passengers carried on the Lincoln Road bus line were practically the same in number as in the previous year, notwithstanding the fact that the Erie Avenue line also taps the Lincoln Road district and gives a considerably improved service over the trackless trolley line, which formerly operated over this route. The M.C.R. and Ouellette Avenue lines show normal increases, while the Walker Road line shows a decrease of about 3,000 passengers per month as compared with the corresponding period in 1923, this being caused by the better facilities offered on the Erie Avenue line. The Crosstown line shows an increase of about 150,000 passengers a month as compared with the previous year. The operation of one-man cars in this section continues to be satisfactory, and notwithstanding an increase of over 300,000 additional car miles, accidents in 1924 were reduced from 20.59 per 100,000 car miles to 15.60 accidents per 100,000 car miles. For the year ending October 31, 1924, 293,304 car miles were operated with single-truck hand-brake cars, these cars being used on the light-travel sections, and there were 14.31 accidents per 100,000 car miles at a cost of 2.20 cents per car mile. There were operated 624,727 car miles with double-truck air-brake cars on the interurban lines, accidents being 9.28 per

100,000 car miles at a cost of 0.22 cents per car mile. The one-man single-truck safety cars, were operated 777,065 car miles, with 19.94 accidents per 100,000 car miles at a cost of 0.54 cents per car mile. The double-truck, one-man—two-men cars operated 365,616 car miles, with 19.41 accidents per 100,000 car miles, at a cost of 0.44 cents per car mile. The trackless-trolley busses operated 51,448 bus miles with 25.26 accidents per 100,000 bus miles at a cost of 2.46 cents per bus mile. The total cost of accidents was 0.72 cents per car mile. There were two boarding and alighting accidents on our safety cars for 1,142,681 car miles, for neither of which the operating staff was responsible, while with the older type of car there were 14 boarding and alighting accidents for approximately 931,000 car miles. This record is considerably lower than is found in the records that are available from companies operating in the United States, where, with the safety car, the average seems to be approximately 38 accidents per 100,000 car miles. The following operating statistics will prove interesting:—

ESSEX DISTRICT RAILWAYS

Operating Statistics

Route-miles:		
City trolley	16.71	
City trollibus	2.99	
Amherstburg interurban	13.54	
Tecumseh interurban	6.11	
Total route-miles		39.35
Passenger and freight car-miles operated		2,151,349
Passenger and freight car-hours operated		259,401
Accidents		343
Passengers carried		13,330,081
Percentage of transfer passengers to revenue passengers		11
Passenger cars operated		62
Passengers carried per route-mile		338,756
Passengers carried per car-mile		6.3
Passengers carried per car-hour		52.6
Average mileage per car operated		34,067
Average passengers per car operated		215,001
Freight tonnage carried		17,203

COMPARATIVE FIGURES SHOWING GROWTH

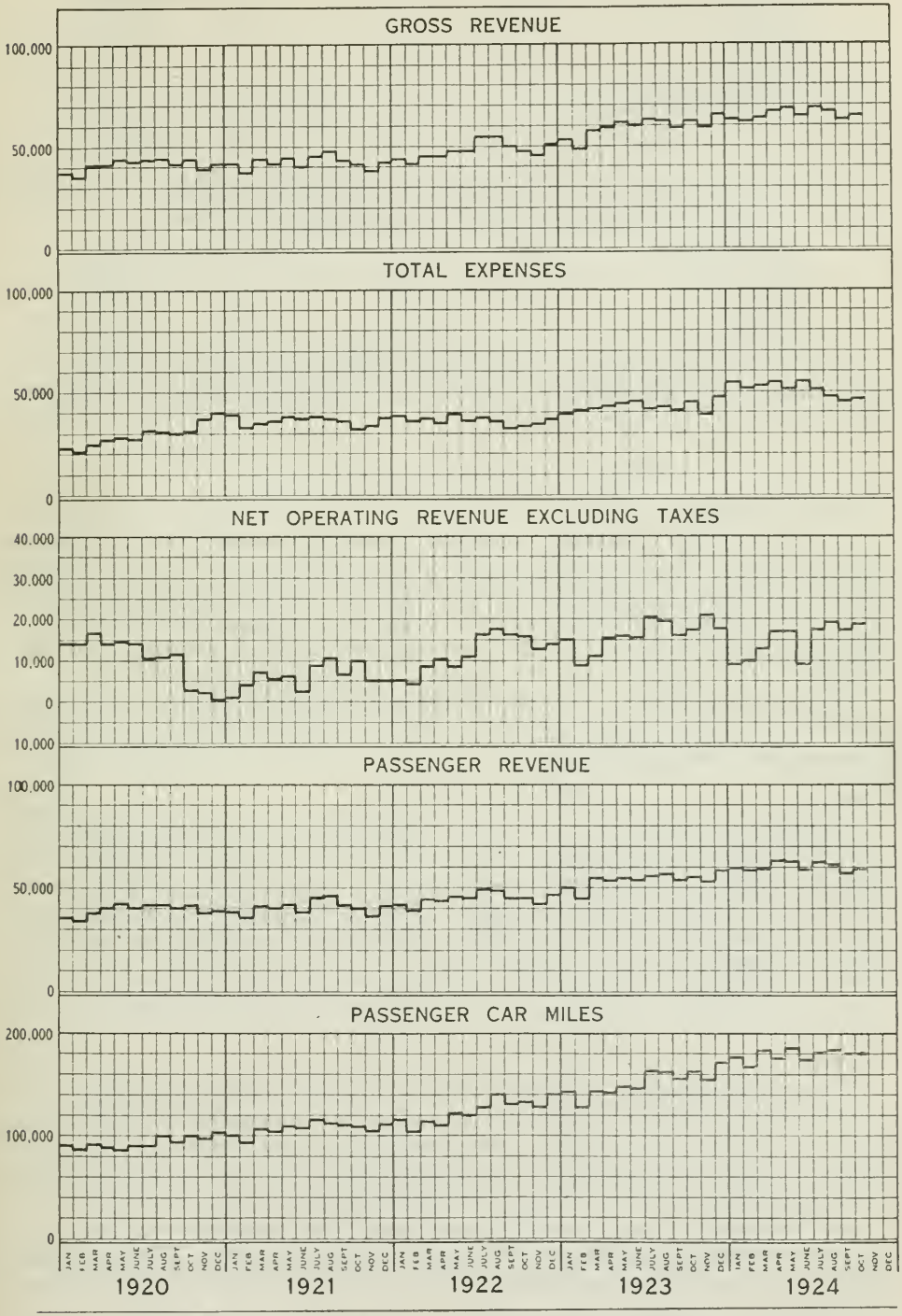
Year	1920–21	1921–22	Percentage of 1920–21	1922–23	Percentage of 1920–21	1923–24	Percentage of 1920–21
	$	$		$		$	
Passenger earnings	488,185	526,982	108	625,601	128	717,356	147
Freight earnings	9,883	19,470	197	50,570	512	44,090	446
Miscellaneous earnings	7,757	10,339	133	12,244	158	13,460	174
Gross earnings	505,826	556,792	110	688,416	136	774,907	153
Operating expenses	426,604	436,910	102	500,202	117	588,658	138
Net earnings	79,222	119,881	151	188,214	237	186,248	235

NOTE.—In the above table the cents have been omitted and the percentages are given to the nearest whole number.

Population Statistics

The following tabulation shows the present population of the Border Cities. The growth has been so rapid and consistent that the prediction may safely be made that there will be about 100,000 people living in this district before the end of 1927.

ESSEX DISTRICT RAILWAYS—OPERATING STATISTICS



NOTES: 1919—May and July, strikes. December, power interruption.
1921—Fare increased from 6 for 25 cents to 5 cents straight, effective July 1.
1922—Fare increased to 6 cents cash, 20 tickets for $1.

Municipality.	Population.
Windsor	52,638
Ford City	9,204
Walkerville	8,558
Sandwich	7,035
Riverside	3,300
LaSalle and Ojibway	800
Total	81,335

To the above total should be added the population residing close to the above municipalities and along the interurban lines as follows:—

Anderdon Township	1,782
Sandwich East	1,794
Sandwich West	2,870
Amherstburg	2,809
Tecumseh	1,665

In Windsor alone last year over 578 dwelling houses were erected, and many large and small apartment houses, at a total cost of over $3,000,000.

GUELPH DISTRICT RAILWAYS

Way and Structures

In the complete rehabilitation of the system it was deemed advisable to get the maximum life out of any special track work in place. During the past year the special work turnout, for the south end of Clark Street siding was renewed in manganese insert steel; two switches, two mates, and one frog in manganese insert work, in front of car barn on Waterloo avenue, were also replaced.

The unpaved track reservation of the entire system, with the exception of the Ontario Agricultural College line, was gone over, carefully filled in with gravel, and on some streets oiled.

Equipment

During the current year the entire equipment on the Guelph lines was overhauled and all wearing parts were renewed and put in first-class operating condition. This work has been carried out on a mileage basis, all cars having operated practically 100,000 car-miles. This overhauling was accomplished within the last four months of the fiscal year and covered the replacing of pinions, gears and wheels and the complete renewal of all wearing parts. The equipment is in first-class condition and has fulfilled all of the expectations of the Commission since its installation.

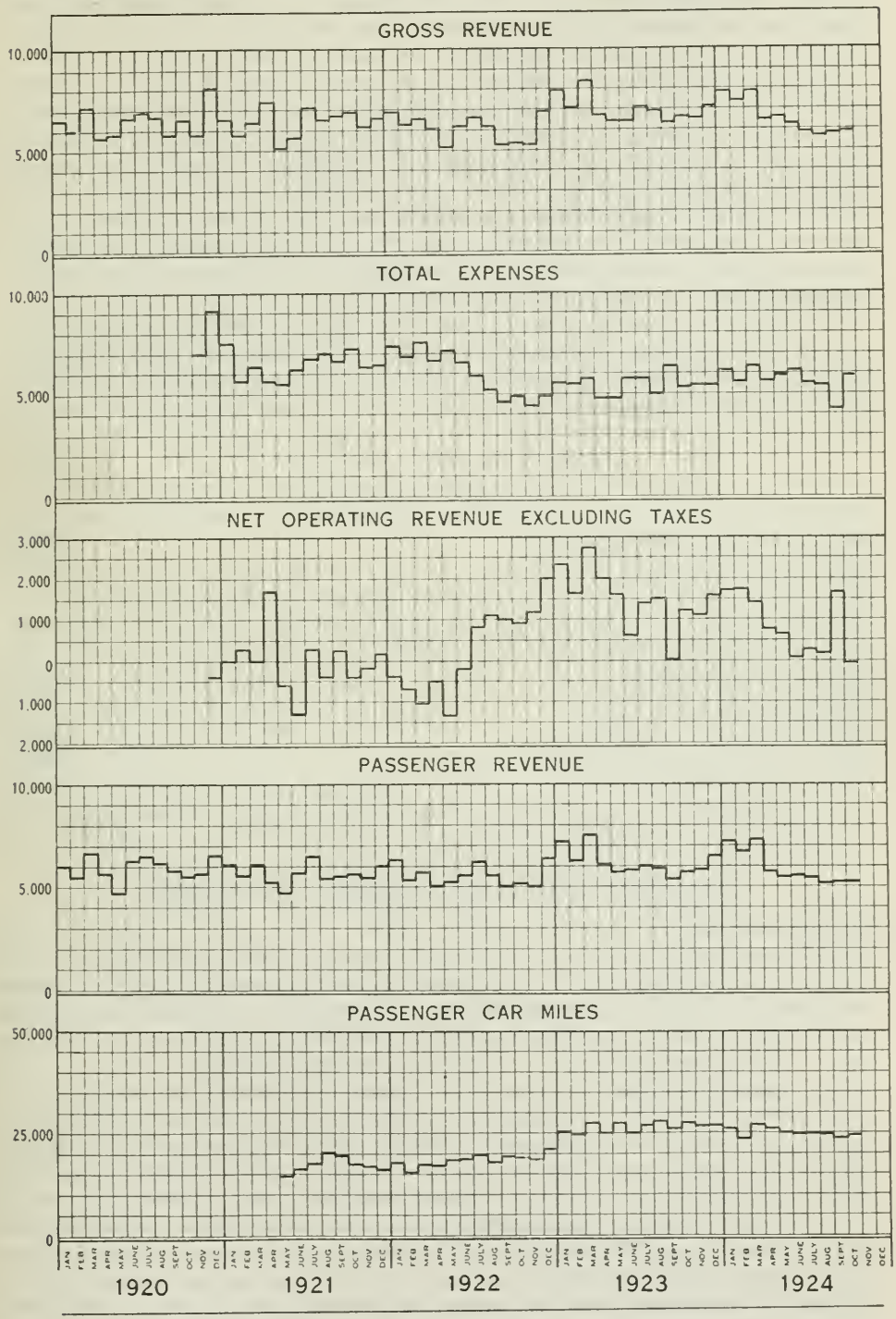
Operation

The quiet industrial conditions that existed in Guelph during the past year are similar to those experienced in various other sections of the province and have been reflected in the revenue received on this division. The Agricultural College was also affected, there being 33 per cent fewer students than in previous years; this fact accentuated the decrease in revenue.

In Wellington county, in 1924, there were 3,519 passenger and 195 commercial auto licenses granted and in the city of Guelph there were 1,567 passenger and 175 commercial licenses issued. This is the equivalent of 12.3 persons per auto car.

The population in the Guelph district in 1924 was 19,219, an increase of approximately 345 people during the year. The car mileage for the year

GUELPH DISTRICT RAILWAYS—OPERATING STATISTICS



NOTE: Operation by Hydro-Electric Power Commission commenced on May 1, 1921.

remained practically the same as for 1923, being 302,427 as compared with 304,168 in 1923. Passenger revenue for the year shows a decrease of $2,085.79 and freight revenue shows a decrease of $952.47, the total decrease in revenue from all sources for the year being $2,827.12.

Operating expenses show an increase of approximately $4,442 as compared with the previous year. Of this amount, $2,143.75 was for increased cost of power, which is assessed by the city of Guelph for power supplied to the Railway department. Expenses in reballasting totalled $620. There was an increase of $396.49 for removal of snow on account of severe winter conditions and an increase of $532.00 for additional track labour. The above increases, coupled with the large expenditure in connection with the rehabilitation of equipment, which exceeded that spent during the previous year by approximately $1,000, is responsible for the increase in operating costs.

Accidents for the year numbered 41—as compared with 80 in the previous year, or 13.55 accidents per 100,000 car-miles. With the new safety equipment alighting and boarding accidents have been eliminated on the cars, none having occurred during the year. The total cost of accidents was 0.16 cents per car-mile.

GUELPH DISTRICT RAILWAYS

Operating Statistics

Route-miles	8.4
Passenger and freight car-miles operated	302,427
Passenger and freight car-hours operated	36,524
Average number of employees	28
Accidents	41
Passengers carried	1,484,519
Percentage of transfer passengers to revenue passengers	12.9
Passenger cars operated	8
Passengers per route mile	174,855
Passengers carried per car-mile	4.9
Passengers carried per car-hour	41.7
Average mileage per car operated	37,305
Average passengers per car operated	185,565
Average riding (revenue) habit	77.2

A glance at the accompanying graph will show the approximate conditions existing yearly since the Commission took over the operation of the line in May, 1921.

TORONTO AND YORK DISTRICT RAILWAYS

Way and Structures

Metropolitan Division: A number of improvements were made on this division in order to bring the line up to the standard adopted by the Commission. New 80-lb., A.S.C.E.-section rail, 60 feet long, was laid on tie-plates, extending northerly from the Don River bridge to the Mausoleum crossing of Yonge street. All tie renewals south of Newmarket were tie-plated.

In compliance with the order of the Board of Railway Commissioners, the over crossing of the Northern division of the Canadian National Railways on private right-of-way was abandoned, and the track replaced through the new Yonge Street subway, constructed by the Canadian National Railways and the Department of Public Highways. The Commission was assessed 20 per cent of the total cost, and was further required to replace the old interchange to the north of the Canadian National Railways by the construction of a new transfer track. New 80-lb., A.S.C.E.-section rails, 60 feet long, on creosoted ties with tie plates, were laid through the subway, on crushed stone ballast, for a distance of 2,000 feet.

On Yonge street in Aurora, extending southerly from Wellington street to the railway station, the track was lowered to conform to the pavement grade; and new material, including ties, rails where necessary, and ballast, was placed.

Improvements to the Commission's terminal at North Toronto made during the year included paving in front of the freight shed and passenger station, grading, construction of a retaining wall and planting of trees.

New standard shelters of sheet-metal construction were erected at the Summit Golf Club and at Sharon; the old shelter at Stop 23 was moved across Yonge street and reconstructed.

A new combined station, despatcher's office, and freight shed was erected at Schomberg Junction, replacing the old buildings.

The new lavatory and activated sewage-disposal plant at Bond Lake was opened in June. Owing to shortage in Park water supply an additional pump, which has been kept in reserve for emergency, was installed in conjunction with a 1,000-gallon pressure tank to supplement the existing supply.

At Newmarket, to improve operating conditions, a new passing siding and team track were constructed, and a triangular portion of the car barns was removed on Park street to improve the vision for both railway and vehicular traffic.

The installation of block signals from the Toronto city limits to Morgan's siding was completed, and has added greatly to the operating efficiency of the line.

A complete survey of the pole lines pertaining to the railway has been made, each pole being numbered, registered, and marked with a small aluminum plate.

Scarboro Division: Between the Hunt Club switch and the car barns 1,265 feet of 80-lb., A.S.C.E.-section, 33-foot rail were laid, replacing worn-out 56-lb. material. One-half mile of 60-lb., A.S.C.E.-section, 33-foot rail was laid between Mason's siding and Fronts Hill.

All shelters on the line, including the Westhill station, were repaired and painted. Those situated on the opposite side of the Kingston road to the radial line were moved across the highway.

The old timber bridge over Skelton road, which has outlived its usefulness, is being replaced with a permanent steel structure fabricated by McGregor & McIntyre from surplus steel from the Niagara development.

Mimico Division: Supplementing the drainage improvements through Mimico carried out last year, a number of plank crossings were erected over the open ditch which had been dug to provide for flood conditions. Several storm water catch basins with connections to sewer were also installed.

About four miles of new 80-lb., A.S.C.E.-section, 60-foot rail has been received but the laying of this is deferred pending the conclusion of negotiations with the municipalities for double tracking.

Immediately the new cars ordered last year were received the whole trackage of the Mimico division was changed to standard gauge. The older rolling stock was withdrawn and the necessary changes were made before it was put back into service. At the same time a connection was made with the St. Lawrence Starch Works spur at Port Credit, so that carload lots of construction material could be transferred to the Commission's railway without breaking bulk.

The substructure of the Humber River bridge, which had for some time needed renewal, was reconstructed in June. The work, which consisted of erecting new timber bents on existing piles cut off below water level, was carried out by the Russell Construction Company without serious interruption of traffic.

Repairs to the old timber trestle approach to the Etobicoke River bridge have been put in hand and a portion of the work will be completed this season.

New standard steel shelters were erected at the Rifle Range and Brown's Line.

Equipment

Metropolitan Division: The extension of the Toronto Street Railway system to the northern limits of North Toronto has resulted in suburban development being pushed further northward. This has necessitated additional service on the Metropolitan division from the city terminal to Thornhill, a distance of about six miles. The additional service in turn has made necessary the installation of an efficient type of trolley contact signals for four and a half miles, as far as Morgan's switch. These signals permit a considerable speeding up of traffic and give additional protection.

Scarboro Division: The five double-truck cars being rebuilt for this division are practically finished, but some delay has been experienced due to non-receipt of the motors. These cars are practically duplicates of the four new cars placed in service on the Mimico division and are expected to make a considerable improvement in the service both in comfort to the passenger and in speed.

Mimico Division: The four modern, double-truck cars referred to in the previous Report were placed in service towards the end of the summer and are apparently much appreciated. They are provided with the latest type of apparatus and can be operated in trains of two or three cars each. Considerable study was given to the arrangement of the doors so as to permit passengers to board and alight from either side of the car at either the front or the rear end. This arrangement involves extra equipment, but the operating conditions along this railway seem to require such special attention. The same holds good in the matter of headlights, and observations and experiments, extending over a period of eight or ten months, were made in order to select a type that would give sufficient light for safe operation and at the same time interfere as little as possible with automobile traffic on the adjoining highway. Specialists from various manufacturing companies made a number of trips to assist in tests and also supplied a large amount of test equipment which was inspected in actual and special service on the Metropolitan division over a period of several months. As matters now stand the headlights from automobiles are a greater menace to the railway operators than the railway headlights are to automobile traffic and it is hoped that legislation will soon be enacted to prohibit the use of dangerous headlights. These are usually on pleasure automobiles and create a hazard to electric cars which are operated as a public necessity.

Coincident with the supply of the four new cars during the summer, the gauge of the old cars was changed from 4 ft. 10-7/8 in. to 4 ft. 8-1/2 in. Arrangements have also been made to overhaul four of the older cars that are in fair operating condition so as to permit them to be used in the same service as the new cars. This requires the rearrangement of the doors so that passengers may be picked up or set down from either side. These reconditioned cars will be ready for service early in the new year and it is anticipated that the four new cars will be delivered also early in 1925. The putting into service of these cars will ensure better service during the coming summer.

Operation

The operation of the Toronto and York Radial Railways for the year 1924 continues to show a deficit as was expected, in view of the fact that the con-

TORONTO AND YORK DISTRICT RAILWAYS
Schomberg and Aurora Junction station

templated improvements are not yet complete. It is expected that by the early summer the railways will be in a position to benefit by the advantages that the recommended capital expenditures of 1924 will produce. A careful study of the Schomberg and Aurora division has resulted in the Commission recommending to the city of Toronto that service on that line be discontinued and the line either scrapped or disposed of. This division has been a losing proposition since its inception and inasmuch as there is no feasible way of obtaining additional revenue, it is felt that continuing the operation of the line is not warranted.

Metropolitan Division: The passenger revenue on the Metropolitan division for the fiscal year 1924 was $345,897.32 as compared with $348,451.49 in 1923. The decrease in passenger revenue was caused by quiet industrial conditions and the fact that considerable business was lost through bus competition.

The freight revenue for 1924 was $115,085.94 as compared with $172,608.00 in 1923. The decrease in freight revenue was caused by quiet industrial conditions and was due in part to the cessation in this section of work by the Department of Public Highways. During the year 1923 approximately 50,561 tons of sand and gravel, 2,969 tons of cement and 3,261 tons of building material were used in highway construction in the section served by this railway. This tonnage was entirely lost during the year 1924. The average revenue per ton for freight handled in 1923 was $1.30.

There was a decrease in operating expenses of about $56,775, $4,940 in way and structures, which were $101,965 in 1924. This, however, is about $30,000 higher than it will be as soon as the deferred maintenance, which was neglected previous to the Commission taking over operation, has been adjusted. Maintenance of equipment was approximately $9,563 less in 1924 than 1923. There was also a decrease of about $11,527 in power cost. Conducting transportation was $17,251 less in 1924 than 1923 and there was a decrease of approxi-

mately $13,492 in general and miscellaneous expenses, notwithstanding additional car miles.

A new freight terminal and store room at No. 4 Sherbourne street was leased from the Toronto Transportation Commission. This was necessitated on account of the sale of the old stores department and car barn at 1440 Yonge street. It has been the means of effecting a large reduction in cost of freight cartage, the freight being handled between the Sherbourne Street terminal and the main freight terminal at old Stop 26 by motor truck and trailers.

Scarboro Division: On the Scarboro division, the new equipment is completed and is ready for installation as soon as weather conditions permit of the changing of gauge of the track. With the proposed changes on this division, it is expected that the decrease in operating costs will be such as will make the line self-sustaining.

The revenue for the fiscal year was about $87,056 as compared with $88,276 for 1923, a decrease of $1,220, the cost of operation showing an increase of about $2,521 over the previous year.

Mimico Division: On the Mimico division very few changes have been made pending the determination by the municipalities whether or not the portions of the line passing through the respective municipalities would be taken over. While the revenue on this division has shown a decrease and the operating expenses an increase over last year, it is believed that on the completion of the installation of the new equipment and of the changes suggested by the Commission this line will more than carry the operating expenses and fixed charges. The bus operation has been the cause of considerable reduction in the traffic and this competition has been favoured by the lack of efficient service on this division. It will largely be eliminated with improved service. Four new double-truck cars are being built by the Ottawa Car Company and four cars are being rebuilt by the Toronto Transportation Commission. These cars will put the equipment on this division in first-class shape. The four new double-truck cars which were on order when the last Report was presented were delivered and have been in service for the past five months and are giving excellent satisfaction.

The gross revenue on the Mimico division for 1924 was about $177,060 as compared with $208,407 for the previous year, a decrease of $31,346. The cost of operation shows an increase of $19,802 over the previous year. The principal increases were made up of improvements in way and structures, including quite a large amount of tie renewals, rails and repairs to bridges, etc.

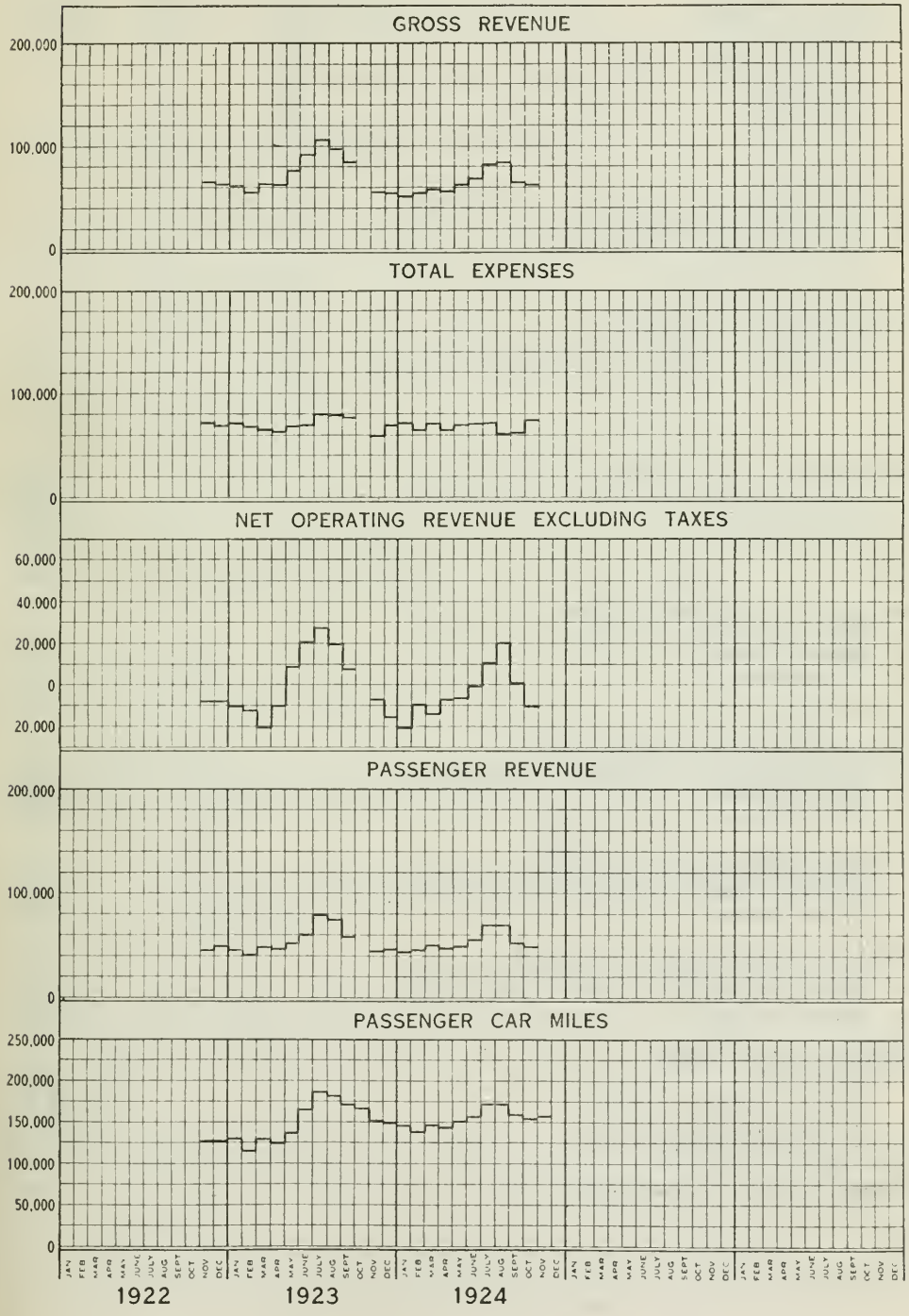
Approximately $18,000 was set aside during the year on the Toronto and York District for pension and insurance for the employees.

TORONTO AND YORK RADIAL RAILWAYS

Operating Statistics, 1924

Route Miles—1924	
Metropolitan and Schomberg and Aurora division	62.98
Scarboro division	8.34
Mimico division	8.62
Passengers carried—1923-1924	
Metropolitan and Schomberg and Aurora division	1,752,797
Scarboro division	1,275,419
Mimico division	3,218,375
TOTAL	6,246,591

TORONTO AND YORK DISTRICT RAILWAYS
OPERATING STATISTICS



TORONTO AND YORK RADIAL RAILWAYS—Continued

Operating Statistics, 1924

Accidents—1923-1924	Metropolitan division	Scarboro division	Mimico division
Passengers killed	0	0	0
Passengers injured	17	9	29
Employees killed	2	0	0
Employees injured	12	3	6
Others killed	0	0	0
Others injured	5	11	10
Collision of cars	0	0	1
Derailments	0	0	0
Passengers hurt boarding cars	4	7	3
Passengers hurt alighting from cars	9	4	16
Vehicles and animals struck	7	1	1
Automobiles struck	33	19	18
Pedestrians hit by car	3	4	4
Passengers falling from cars	0	0	3
Passengers hurt while on cars	1	1	5
Passengers hurt otherwise	0	0	3
Miscellaneous accidents and occurrences (including track and shop departments)	35	6	15
TOTAL	92	42	69

Passenger Car-Miles Operated	
Metropolitan and Schomberg and Aurora division	779,066
Scarboro division	322,483
Mimico division	621,043
TOTAL	1,722,592
Passengers Carried per Car-Mile	
Metropolitan and Schomberg and Aurora division	2.2
Scarboro division	3.9
Mimico division	5.2
All divisions	3.6
Passengers Carried per Route-Mile	
Metropolitan and Schomberg and Aurora division	27,831
Scarboro division	152,928
Mimico division	316,769
Average Mileage per Car Operated	
Metropolitan and Schomberg and Aurora division	35,412
Scarboro division	40,310
Mimico division	32,686
Average Passengers per Car Operated	
Metropolitan and Schomberg and Aurora division	79,672
Scarboro division	159,427
Mimico division	169,388
Freight Tonnage Carried	
Total freight	tons 61,175
Freight tonnage per car-mile	" 0.555
Freight revenue per car-mile	$1.04
Freight revenue per route-mile	$1,827.34
Freight revenue per ton	$1.88
Average Number of Employees	355

SECTION IX

FINANCIAL STATEMENTS

EXPLANATORY STATEMENT RESPECTING THE ACCOUNTS

The Hydro-Electric Power Commission of Ontario believes that a satisfactory understanding of the manner in which the various operations of the Commission are financed will contribute greatly to the interest of those engaged either directly or indirectly with the work of the Commission.

In this section of its Annual Report the Commission presents detailed financial statements which may easily be understood although, upon casual inspection, they might appear somewhat complex.

For the purpose of financial statement, the various systems are treated as quite separate units for each of which similar statements and details are given. Many of the pages which follow, therefore, simply repeat for each system the class of data which is presented for the first system dealt with, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal Hydro utility.

The accounts of the Hydro-Electric Power Commission of Ontario are audited by auditors specially appointed by the Provincial Government. The accounts of the Hydro utility of each individual municipality are prepared according to approved and standard practice and are also duly audited. In fact, in preparing the various financial reports and statistical tables relating to all Hydro enterprises, the greatest care is exercised and all statements are presented in such form that they may be comprehensive and at the same time easily understood.

It is proposed here to explain briefly the general plan of the financial operations of the Commission and in the course of the explanation to illustrate by reference to specific data.

The balance sheet which immediately follows, exhibits the assets and liabilities of the Hydro-Electric Power Commission of Ontario in respect of all of its undertakings, except those of the "Central Ontario and Trent" and "Nipissing" systems—which, owing to special conditions, are separately submitted.

It will be understood that this statement of assets and liabilities and the financial tables which follow relate to the properties constructed and operated by the Commission as trustee for the municipalities; and the balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," refer to the operation of the municipalities' properties within the boundaries of those municipalities which have contracted with the Commission for their supply of electrical energy.

The whole Hydro-Electric undertaking of the municipalities, so far as finances are concerned, is operated in what may be termed two distinct divisions. The first division covers the generation, transformation, and transmission of electrical energy in wholesale quantities to municipalities. The equipment essential to this work is constructed, or otherwise provided, and also operated on behalf of the associated municipalities by the Hydro-Electric Power Commission of Ontario.

The second division comprises the various operations involved in the local distribution by various municipal utility commissions, within their respective municipalities, of the electrical energy which they purchase from the Hydro-Electric Power Commission. The work performed by the various municipal commissions in their local distribution and sale of electrical energy is under the supervision of the Hydro-Electric Power Commission.

To convey a better understanding respecting the operations of Hydro undertakings, the financial results of the two divisions just mentioned have been combined and are shown in balance sheet form immediately following statement "A" in Section X of this Report. These balance sheets are headed: "Statement combining the Hydro-Electric Power Commission's plant and reserves with the assets, liabilities and reserves of the Hydro Municipal Utilities as at 31st December, 1923," and information respecting the several columns of figures is given in a statement immediately preceding these balance sheets.

The ultimate source of all revenue—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. The revenue collected from the service supplied by the municipalities is divided so as to pay for the power purchased from the Commission and also for the expense incurred by the local utility in supplying its customers.

The portion of the total revenue remitted to the Hydro-Electric Power Commission—and this remittance appears in the financial statements as the total "Cost of Power"—must be sufficient to pay the municipality's proportion of the expenditures made by the Commission on behalf of the municipality, in connection with the particular system to which the municipality belongs, in order to provide, transmit and sell to the municipality the agreed-upon amount of power. This remittance to the Commission includes a sinking fund, and provision for depreciation for renewals reserve and also a contingency or insurance fund; the first mentioned reserve is providing for the liquidation of the capital investment, the latter two creating funds to provide for the renewing or rebuilding of any section of the various properties when necessary and to meet any unforeseen contingencies which may, from time to time, arise. The Hydro-Electric Power Commission of Ontario obtains its revenue from power service—that is, from the sale of electricity generated for and transmitted to the municipalities in bulk—and with this revenue operates and maintains its system and also creates the reserves just mentioned. Power service is given to each municipality "at cost."

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same sound financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and provide

a reserve to rebuild generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local Hydro systems.

From the foregoing explanation it will be seen that the revenue obtained from Hydro light and power customers is sufficient to meet *all* operating and maintenance costs and capital charges in connection with (a) individual municipal investments and (b) collective municipal investments made through the agency of the Hydro-Electric Power Commission, and in addition there is being provided a fund for the purpose of renewing or rebuilding the properties—if necessary—of the whole Hydro installation from the generating stations to and including the municipal systems.

It will be profitable to consider, very briefly, the basic principle upon which the whole Hydro project is founded. This is set out in the contracts under which the municipalities enter into the partnership of which the Commission acts as trustee. The rates at which power is supplied to the various municipalities vary with the amount of power used and the distance from the source of supply. The entire capital cost of the various power developments and transmission systems are pro-rated annually to the connected municipalities, according to the relative use made of the lines and equipment. Each municipality is required to assume responsibility for just that portion of capital employed in delivering electrical energy to it, together with such expenses as are incident to that particular portion of the investment. Municipalities are not charged with expenses connected with equipment or plant from which they derive no benefit or are in no way interested. The entire annual expense of operation, maintenance, administration, interest and sinking fund and full depreciation are paid out of revenue collected from the municipal Hydro utilities through the medium of power bills rendered by the Commission. Power bills are rendered at an interim estimated rate each month during the year and a thirteenth bill—or credit memorandum as the case may be—is rendered at the end of the year, when the Commission's books are closed and the actual cost determined.* There is no burden on the taxpayers or on non-users and no avenue through which losses, should they occur, could be absorbed, except by a direct charge to the contracting municipalities for power supplied. It should be noted that sinking fund and debenture payments are treated as operating expense and that, therefore, the municipalities are not only paying the interest on the investment, but are retiring the bonded debt from revenue and, in addition, are providing from revenue for the perpetuity of the system, an adequate reserve for contingency and depreciation purposes.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are clearly shown in the tables for the respective systems.

These financial statements are typical of others appearing in this section of the Commission's Annual Report, and if their significance is fully appreciated there can be no misconception of the relationship of the municipalities to the Commission's operations.

To illustrate further the foregoing explanatory comments a typical Operating Report is now submitted, viz., that of the Hydro-Electric Utility of the town of Chatham.

*The financial year for the Commission accounts ends on October 31. The financial year for the Municipal accounts, however, ends on December 31, and the Municipal accounts are made up to this date, and so recorded in Section X.

CHATHAM HYDRO SYSTEM

OPERATING STATEMENT FOR THE YEAR 1924

REVENUE

Revenue from Chatham Hydro customers for year $181,952.96

EXPENSES

Representative illustration of expenses incurred by the Hydro-Electric Power Commission on behalf of a municipality in connection with the supplying of its electrical energy. These data really show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its power. See Annual Adjustment Statement, page 148, for the city of Chatham, as follows:

Cost (proportionate share) of operation and maintenance expense of Niagara generating plants, transformer stations and transmission lines, together with administrative expenses	$18,230.82	
Interest on Chatham's proportionate share of capital investment in generating plants, transformer stations and transmission lines	48,261.88	
Sinking fund (proportionate share) provided in respect of generating plants, transformer stations and transmission lines ...	10,971.71	
Renewal reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines	6,169.99	
Contingency reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines—a reserve created to meet any unforeseen contingency expense	7,567.65	
		$91,202.05

Expenses incurred by a municipality through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:

Operation, maintenance and administrative expenses, etc.	$40,541.22	
Interest and fixed charges on debenture debt.	22,073.16	
Depreciation charge	8,812.00	
		$71,426.38
Total expenses charged against the revenue from customers of the Chatham system		$162,628.43
Net surplus for the year		$19,324.53

The city of Chatham situated at the western end of the Niagara transmission lines, 194 miles distant from the source of power, Niagara Falls, Ontario, was connected to the system in February, 1915. The Hydro utility of this municipality has fulfilled every monetary obligation imposed upon it by the Power Commission Act. With the close of the tenth year of operation its financial condition as set forth in the municipalities' balance sheet (see Statement "A" in Section X) stands as follows:

Total assets, $553,432.92; total liabilities, $303,434.26; reserves and surplus, $249,998.66. The last mentioned figure comprises the following items:

Debenture payments	$35,404.00
Reserve for renewals of local plant	58,316.16
Sinking fund equity in Hydro-Electric Power Commission system	54,183.48
Surplus	102,095.02
	$249,998.66

In addition to these reserves the Hydro-Electric Power Commission of Ontario has collected from this utility during the period under review the sum of $50,274.91 which represents Chatham's proportionate share of renewals reserve retained by the Commission for purposes as hereinbefore mentioned.

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER

Assets			
Niagara System:			
Generating plants:			
Queenston-Chippawa development		$73,328,515.03	
Ontario Power development		22,016,473.36	
Electrical Power development		12,002,553.79	
Transmission lines:			
Right-of-way		6,687,729.27	
Steel-tower and wood-pole lines		14,286,058.62	
Transformer stations		19,004,008.79	
		$147,325,338.86	
Distribution lines:			
Rural power districts	$868,933.44		
Rural lines	233,336.12		
Municipal	42,371.36		
		1,144,640.92	
			$148,469,979.78
Georgian Bay System:			
Generating plants:			
Big Chute development		$654,718.55	
Eugenia Falls development		1,135,108.99	
Wasdell development		148,148.04	
Transmission lines		1,818,985.87	
Transformer stations		570,946.54	
		$4,327,907.99	
Distribution lines:			
Rural power districts	$52,368.56		
Rural lines	3,254.87		
		55,623.43	
			4,383,531.42
Muskoka System:			
Generating plant		$321,565.67	
Transmission lines		54,752.35	
Transformer stations		10,996.95	
			387,314.97
St. Lawrence System:			
Transmission lines		$519,940.74	
Transformer stations		499,728.09	
		$1,019,668.83	
Rural power districts		28,186.24	
			1,047,855.07
Rideau System:			
Generating plants		$759,433.09	
Transmission lines		261,698.94	
Transformer stations		60,781.37	
			1,081,913.40
Thunder Bay System:			
Nipigon generating plant		$7,598,890.08	
Transmission lines		1,471,879.01	
Transformer stations		265,766.04	
			9,336,535.13
Ottawa System:			
Meters, etc.		$2,882.97	
Rural power districts		27,383.01	
			30,265.98
Bonnechere River storage system			34,165.74
Carried forward			$164,771,561.49

COMMISSION OF ONTARIO

and Liabilities, October 31, 1924

UNDERTAKINGS

	LIABILITIES		
Provincial Treasurer:			
Cash advances for Niagara and other systems		$55,224,519.68	
Cash advances for Queenston-Chippawa development		68,446,987.31	
Portion of interest on investment in Thunder Bay (Nipigon) system paymenf of which is deferred		567,621.58	
			$124,239,128.57
Unexpended portion of the sum appropriated by the Legislature to cover expenditures by the Commission on account of the Province			153,647.84
Debentures issued by the Commission and guaranteed by the Province:			
4% debentures due 1957 issued in purchase of the Ontario Power Company of Niagara Falls	$8,000,000.00		
Interest accrued thereon	80,000.00		
		$8,080,000.00	
6% debentures due 1941 issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls	$3,200,000.00		
Interest accrued thereon	67,856.16		
		3,267,856.16	
6% debentures due 1940 issued in purchase of the Toronto Power Company, Limited	$413,200.00		
Interest accrued thereon	10,330.00		
		423,530.00	
6% debentures due 1940 issued in purchase of certain electrical power equipment of the Toronto and York Radial Railway	$205,800.00		
Interest accrued thereon	5,145.00		
		210,945.00	
5% debentures due 1939 issued for the purpose of retiring the 1924 issue of the Toronto Power Company, Limited	$4,000,000.00		
Interest accrued thereon	75,000.00		
		4,075,000.00	
4% debentures due 1958 issued in purchase of distribution lines in Essex county	$200,000.00		
Interest accrued thereon	3,333.33		
		203,333.33	
5% debentures due 1928 issued in purchase of distribution lines in Essex county	$26,000.00		
Interest accrued thereon	541.67		
		26,541.67	
4% debentures due 1958 issued in purchase of distribution lines in vicinity of Thorold	$100,000.00		
Interest accrued thereon	1,666.67		
		101,666.67	
			16,388,872.83
Carried Forward			$140,781,649.24

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER UNDER

ASSETS

Brought forward		$164,771,561.49
Service Buildings and Equipment:		
Service building and equipment, Toronto	$476,328.47	
Equipment of storehouse and garage, Hamilton	9,116.81	
Pole yard and equipment, Cobourg	20,245.79	
		$505,691.07
Office Buildings:		
On University avenue, Toronto	$505,593.55	
On Elm street and Centre avenue, Toronto	163,231.01	
		668,824.56
Office Furniture and Equipment:		
At Toronto office	$93,071.18	
At Hamilton office	2,111.09	
At Electrical Inspection office	5,703.98	
Library	1,650.20	
		102,536.45
Automobiles and trucks		11,283.15
Inventories:		
Construction and maintenance, tools and equipment	$385,170.60	
Construction material and sundry supplies	634,061.59	
Maintenance material and supplies	308,659.27	
Stationery and office supplies	36,273.73	
		1,364,165.19
Sinking funds for repayment of advances by the Province of Ontario:		
Invested in securities of the Province of Ontario, which are:		
(a) Deposited with Provincial Treasurer—par value	$2,640,000.00	
(b) In the hands of the Commission	1,172,000.00	
Sinking funds for repayment of debentures, bonds and debenture stock issued and assumed by the Commission and guaranteed by the Province of Ontario:		
Invested in securities of the Province of Ontario, which are:		
(a) In the hands of the Commission—par value	$1,833,500.00	
(b) Deposited with Canada Trust Co.—par value	30,500.00	
Interest accrued thereon	90,181.38	
		5,766,181.38
Insurance Funds:		
Invested in securities of the Dominion of Canada—par value	$650,000.00	
Invested in securities of the Province of Ontario—par value	28,000.00	
Interest accrued thereon	5,808.33	
		683,808.33
Staff Pension Funds:		
Invested in guaranteed mortgage certificates of Canada Trust Company—par value	$200,000.00	
Interest accrued thereon	1,420.00	
		201,420.00
Reserve Funds:		
Invested in securities of the Dominion of Canada—par value	$1,450,000.00	
Invested in securities of the Province of Ontario—par value	124,000.00	
Invested in securities of the Commission guaranteed by the Province of Ontario—par value	500,000.00	
Interest accrued thereon	48,325.83	
		2,122,325.83
Premiums (less discounts) on above investments less amounts written off		105,973.15
Carried Forward		$176,303,770.60

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued

LIABILITIES

Brought forward			$140,781,649.24
Bonds and debenture stock assumed by the Commission and guaranteed by the Province:			
First mortgage 5% gold bonds due 1943, of the Ontario Power Company of Niagara Falls	$8,852,000.00		
Interest accrued thereon	110,650.00		
		$8,962,650.00	
First mortgage 5% gold bonds, due 1945, of the Ontario Transmission Company, Limited	$1,538,000.00		
Interest accrued thereon	38,450.00		
		1,576,450.00	
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited	$11,261,023.84		
Interest accrued thereon	253,373.04		
		11,514,396.88	
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited	$3,972,500.00		
Interest accrued thereon	32,949.17		
		4,005,449.17	
			26,058,946.05
Outstanding share capital of the Electrical Development Company of Ontario, Limited			1,100.00
Other Debentures assumed:			
In respect of purchase of lines at Streetsville	$3,717.67		
Interest accrued thereon	92.94		
		$3,810.61	
In respect of purchase of Muskoka Power development	$37,108.66		
Interest accrued thereon	1,370.91		
		38,479.57	
			42,290.18
Accounts payable			835,905.96
Bond interest coupons overdue but not presented			74,378.50
Central Ontario System:			
Current account			274,992.00
Insurance Department:			
Outstanding claims and awards		$613,163.47	
Surplus		67,754.04	
			680,917.51
Reserve for Staff Pensions			305,314.38
Balances due to municipalities in respect of amounts paid by them to October 31, 1924, in excess of the cost of power supplied to them as provided to be paid under section 23 of the Act:			
Niagara system		$553,224.59	
Georgian Bay system		68,339.95	
Muskoka system		364.51	
St. Lawrence system		16,462.74	
Rideau system		8,141.60	
Ottawa system		3,220.86	
			649,754.25
Carried forward			$169,705,248.07

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER UNDER

ASSETS

Brought forward		$176,303,770.60
Cash:		
In banks	$867,913.18	
In hands of employees as advances on account of expenses	154,457.71	
In bank to pay bond interest coupons overdue but not presented	366,201.54	
Cash on deposit with trust companies	97,388.89	
Sinking fund moneys on deposit with trust companies	4,087.47	
		1,490,048.79
Accounts Receivable:		
Due by municipalities and sundry customers in respect of construction work and supply sales	$528,461.61	
Less: Reserve for doubtful accounts	6,702.39	
		521,759.22
Due by municipalities and sundry customers in respect of power accounts	$1,906,740.74	
Less: Reserve for doubtful accounts	41,478.39	
		1,865,262.35
"Sinking fund and interest" accounts owing in respect of rural lines		12,479.16
Due by town of Renfrew for water from Bonnechere Storage system for power purposes		12,830.19
Claim against Dominion Government		72,334.46
Balances due by municipalities in respect of the costs of power supplied to them, as provided to be paid under section 23 of the Act:		
Niagara system	$258,465.69	
Georgian Bay system	35,879.20	
Muskoka system	128.45	
St. Lawrence system	11,404.96	
Rideau system	1,787.51	
		307,665.81
Amount recoverable out of future revenues from the city of Port Arthur and other power customers on the Thunder Bay system—being that portion of the Nipigon Development interest deferred as at October 31, 1924		620,818.33
Work in progress:		
Expenditure on account of various systems chargeable upon completion to:		
Capital construction	$75,468.21	
Operating and maintenance expenses	57,624.67	
		133,092.88
Insurance unexpired		62,106.65
Discount on debentures issued by the Commission—less amounts written off:		
On debentures 3,200,000 maturing 1941	$130,242.81	
On debentures 4,000,000 maturing 1939	95,709.60	
		225,952.41
Carried forward for power undertakings		$181,628,120.85

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued

LIABILITIES

Brought forward		$169,705,248.07
Reserves for Sinking Fund:		
Niagara system	$5,285,257.90	
Niagara rural lines	43,092.66	
Georgian Bay system	269,150.99	
Georgian Bay rural lines	230.91	
Muskoka system	13,789.05	
St. Lawrence system	62,120.96	
Rideau system	9,298.04	
Ottawa system	1,248.12	
Bonnechere Storage system	5,512.81	
		5,689,701.44
Reserves for Renewals:		
Niagara system	$5,047,947.98	
Georgian Bay system	436,214.27	
Muskoka system	21,905.46	
St. Lawrence system	112,256.67	
Rideau system	58,031.54	
Ottawa system	2,072.55	
	$5,678,428.47	
Service buildings	161,947.03	
Office buildings	17,982.86	
		5,858,358.36
Reserves for contingencies:		
Niagara system	$643,699.89	
Georgian Bay system	81,602.55	
Muskoka system	6,587.61	
St. Lawrence system	32,093.33	
Rideau system	16,616.89	
Thunder Bay system	52,560.09	
		833,160.36
Surplus arising from departmental operations in service buildings		1,082.11
Balance at credit of interest account		10,565.05
Contingent liabilities:		
In respect of contracts entered into for works under construction	$3,148,103.98	
Carried forward for power undertakings		$182,098,115.39

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER UNDER

ASSETS

Brought forward for Power Undertakings			$181,628,120.85

RADIAL RAILWAY

Sandwich, Windsor and Amherstburg Railway:			
Road and equipment		$3,755,132.51	
Materials and supplies		115,860.51	
Accounts receivable	$5,537.72		
Cash in banks:			
In the general bank account of the Commission at Toronto	92,899.28		
At Windsor	7,426.17		
		105,863.17	
Insurance, taxes and expenses prepaid	$5,446.24		
Valuation and other expenses re purchase of plant assets of the railway and reissue of bonds—less 46% written off	11,215.41		
		16,661.65	
			$3,993,517.84
Guelph Radial Railway:			
Road and equipment		$410,919.53	
Materials and supplies		7,331.96	
Accounts receivable	$1,026.64		
Cash in banks:			
In the general bank account of the Commission at Toronto	16,788.67		
At Guelph	314.78		
		18,130.09	
Insurance prepaid	$830.08		
Valuation and other expenses re purchase of plant assets by the Commission—less two-fifths written off	1,537.80		
		2,367.88	
Due by the city of Guelph:			
Operating deficit for the year ending October 31, 1924—as per operating account	$20,932.61		
Less—Instalment of principal and interest payable to the city of Guelph, November 1, 1924, under the terms of the purchase agreement	5,850.00		
		15,082.61	
			453,832.07
Carried forward			$186,075,470.76

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued

	LIABILITIES		
Brought forward for Power Undertakings			$182,098,115.39
UNDERTAKINGS			
In respect of the Sandwich, Windsor and Amherstburg Railway:			
Debentures issued by the Commission and guaranteed by the Province:			
4½% debentures due 1960, issued in purchase of the railways	$2,039,000.00		
4½% debentures due 1960, issued for the purpose of making extensions and betterments	61,000.00		
6% debentures due 1961, issued for the purpose of making extensions and betterments	900,000.00		
	$3,000,000.00		
Interest accrued thereon	25,875.00		
		$3,025,875.00	
Bank of Montreal—advances (Secured by hypothecation of $966,205 interim Hydro-Radial debentures of the Commission)		825,000.00	
Accounts payable and accrued charges	$9,926.39		
Provision for unredeemed tickets	7,807.70		
Deposits to cover cost of customers' sidings	6,095.47		
		23,829.56	
Premium (less discount) on sales of debentures—less portion written off		61,165.63	
Reserve for renewal of road and equipment		57,647.65	
Contingent liability:			
First mortgage 5% gold bonds of the Windsor and Tecumseh Electric Railway Company due 1927 and payable by the Detroit United Railways under the terms of the purchase agreement dated January 14, 1920	$189,000.00		
			3,993,517.84
In respect of the Guelph Radial Railway:			
City of Guelph—purchase price of the railway payable thereto, in half-yearly instalments, under the terms of the agreement dated December 8, 1920	$150,000.00		
Less—Six instalments paid thereon	15,710.80		
		$134,289.20	
6% debentures of the Commission due 1931, issued for the purpose of making extensions and betterments		158,000.00	
Bank of Montreal—advances (Secured by hypothecation of $150,000 debentures of the city of Guelph)		140,000.00	
Accounts payable and accrued charges	$4,567.91		
Provision for unredeemed tickets	1,264.16		
		5,832.07	
Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the city of Guelph		15,710.80	
			453,832.07
Carried forward			$186,545,465.30

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

RADIAL RAILWAY

ASSETS

Brought forward for Power and Radial Railway Undertakings...			$186,075,470.76
Toronto and York Radial Railways:			
Radial Railway properties:			
Metropolitan division (including Schomberg)—Road and equipment	$2,248,161.44		
Scarboro division—Road and equipment	333,683.54		
Mimico division—Road and equipment	409,923.13		
		2,991,768.11	
Materials and supplies		133,625.45	
Mortgages receivable, with accrued interest	$121,082.89		
Accounts receivable (less reserve for doubtful accounts)	7,215.96		
Cash in banks:			
In the general bank account of the Commission at Toronto	83,703.43		
In sundry branch banks	4,410.18		
		216,412.46	
Insurance and taxes prepaid	$13,427.48		
Valuation and other expenses incidental to the purchase of the railways, less two-fifths written off	25,222.17		
		38,649.65	
Due by the city of Toronto:			
Operating deficit for the period up to October 31, 1923	$176,627.43		
Interest on the above amount for the year ending October 31st, 1924	8,831.37		
Operating deficit for the year ending October 31, 1924, as per operating account	248,541.34		
	$434,000.14		
Less: Amount owing to the city of Toronto in respect of the operation of the city section of the Metropolitan division in the twenty-three months ending October 31, 1922, $101,720.55 with interest thereon for the two years ending October 31, 1924, $10,172.06	111,892.61		
		322,107.53	
			3,702,563.20
Port Credit to St. Catharines Radial Railway:			
Expended upon purchase of right-of-way		$71,478.69	
Construction materials purchased		117,510.09	
Surveying, engineering, administrative expenses and interest		176,899.50	
			365,888.28
Toronto to Port Credit radial railway:			
Expended upon purchase of right-of-way		$424,223.98	
Surveying, engineering, administrative expenses and interest		179,882.28	
			604,106.26
Total Assets for Both Power and Radial Railway Undertakings..			$190,748,028.50

COMMISSION OF ONTARIO

and Liabilities—Continued

UNDERTAKINGS—Continued

LIABILITIES

Brought forward for Power and Radial Railway Undertakings.....		$186,545,465.30
In respect of Toronto and York Radial Railways:		
Debentures issued by the Commission and guaranteed by the Province:		
6% debentures due 1940, issued in purchase of the Metropolitan, Scarboro and Mimico radial railway divisions.....	$2,375,000.00	
Interest accrued thereon.....	59,375.00	
		2,434,375.00
Bank of Montreal—advances (Secured by hypothecation of $600,000 debentures of the city of Toronto and $650,000 interim Hydro-Radial debentures of the Commission).....		1,250,000.00
Accounts payable and accrued charges....	$7,103.98	
Provision against claims for injuries and damages.....	7,231.96	
Provision for unredeemed tickets.....	3,852.26	
		18,188.20
		3,702,563.20
Contingent Liabilities in respect of Radial Railways:		
On contracts entered into for works under construction.....	$94,267.60	
In respect of the Port Credit to St. Catharines Radial Railway:		
Bank of Montreal—advances (Secured by hypothecation of $1,200,000 Hydro radial debentures, being part of issue of $11,360,363 guaranteed by the Province of Ontario).....		500,000.00
Total Liabilities for Both Power and Radial Railway Undertakings...		$190,748,028.50

NIAGARA

Including the Queenston-Chippawa development and the Plants and Works formerly Company,

Operating Account for Year

COST OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased		$332,419.23
Cost of operating and maintaining generating plants, transformer stations and transmission lines, including the proportion of administrative expenses chargeable to the operation of the system		2,421,777.07
Interest:		
On advances by the province for construction of Queenston-Chippawa developments, transformer stations and transmission lines	$5,248,827.14	
On bonds issued and assumed by the Commission and guaranteed by the province	2,220,817.03	
		7,469,644.17
Provision for renewals of Generating plants	$414,786.15	
Transformer stations and transmission lines	457,945.90	
		872,732.05
Provision for contingencies:		
By charges against municipalities	$744,758.26	
By charges included in the cost of power to Hydro radial railways	8,100.67	
		752,858.93
Provision for sinking funds for repayment of the cash advances of the province to the Commission and for retirement of the bonds issued and assumed by the Commission:		
By charges against municipalities	$1,086,276.72	
By charges against companies	575,177.56	
By charges included in cost of power to Hydro radial railways	14,012.87	
		1,675,467.15
		$13,524,898.60

NIAGARA SYSTEM—

Operating Account for Year Ending October 31, 1924, For detail report see

Power purchased from Commission	$116,214.99
Costs of operating and maintaining transmission lines and equipment	71,188.04
Interest on capital investment	42,676.90
Provision for renewals of lines and equipment	27,769.54
Provision for sinking fund for repayment of cash advances	12,687.34
	$270,536.81

SYSTEM

owned by the Ontario Power Company of Niagara Falls and The Toronto Power Limited.

Ending October 31, 1924

REVENUE FOR PERIOD		
Collected from municipalities	$9,155,478.47	
Power sold to private companies	3,878,149.88	
Power supplied to Hydro radial railways	129,735.41	
		$13,163,363.76
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$488,398.82	
Less:		
Amounts due by certain municipalities, being the difference between sums paid and the cost of power supplied to them in the year	210,392.22	
		278,006.60
Revenue		$12,885,357.16
Cost to the Commission (including sinking fund of $575,177.56 for repayment of the investment in works) of the power delivered to customers under flat rate contracts, in excess of the revenue received from them—already written off through contingency reserve		639,541.44
		$13,524,898.60

RURAL POWER DISTRICTS

included in above account of Niagara System pages 160 to 163

Revenue collected from rural power districts		$372,833.09
Add—Deficit on operation of certain rural power districts	$2,565.74	
Deduct—Surplus on operation of certain rural power districts	104,862.02	
		102,296.28
		$270,536.81

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of
	To June 1, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses
	$ c.	$ c.	$ c.		$ c.	$ c.
Acton	37.00	35.00	137,295.41	416.2	219.51	2,993.34
Agincourt	51.00	40.00	3,141 42	38.5	1,004.12	64.73
Ailsa Craig	49.00	49.00	56,528.19	125.9	66.40	1,333.44
Alvinston	95.95	85.00	55,782.80	75.9	40.03	1,368.50
Ancaster twp	25.81	25.81	68,587.58	267.0	140.82	1,423.28
Aylmer	50.00	46.00	104,597.83	258.7	136.44	2,437.57
Ayr	50.00	43.00	27,728.39	82.0	43.25	658.44
Baden	36.00	36.00	72,744.28	233.2	123.00	1,908.93
Barton twp	29.02	29.02	76,762.42	283.9	149.74	1,185.04
Beachville	37.00	36.00	120,090.57	410.7	216.61	2,929.64
Belle River	92.00	60.00	23,689.76	59.2	31.22	663.61
Blenheim	50.00	48.00	100,431.45	284.3	149.95	2,479.20
Blyth	.....	91.20	24,124.72	14.3	7.54	330.49
Bolton	60.00	55.00	58,409.12	120.8	63.72	801.18
Bothwell	55.00	50.00	59,129.82	153.9	81.18	1,789.27
Brampton	28.00	30.00	354,976.31	1,267.6	668.55	8,168.39
Brantford	25.00	25.00	1,919,781.99	7,307.4	3,854.05	31,998.60
Brantford twp	25.00	25.00	42,266.04	161.0	84.91	688.21
Brigden	70.00	78.00	37,736.64	55.7	29.38	782.81
Brussels	.....	76.16	27,987.58	21.7	11.45	448.56
Burford	60.00	56.00	33,276.68	75.4	39.77	930.13
Burgessville	58.00	55.00	14,789.22	37.4	19.73	544.88
Caledonia	29.00	29.00	41,373.75	152.9	80.64	910.81
Chatham	31.00	31.00	933,470.40	3,363.4	1,773.91	16,456.91
Chippawa	25.00	30.00	24,654.15	102.4	54.00	444.60
Clifford	100.50	100.50	14,330.99	14.4	7.59	528.04
Clinton	50.00	50.00	119,698.70	312.6	164.87	2,616.85
Comber	50.00	48.00	54,816.36	133.2	70.25	1,067.48
Courtright	97.30	97.30	18,074.48	18.8	9.91	314.74
Dashwood	62.00	62.00	24,507.11	43.3	22.84	672.11
Delaware	75.00	70.00	6,152.41	14.8	7.81	245.03
Dereham twp	37.00	37.00	31,396.18	95.3	50.26	1,413.83
Dorchester	50.00	48.00	16,217.85	49.2	25.95	778.59
Drayton	70.00	68.00	35,986.47	58.1	30.65	1,042.32
Dresden	38.00	38.00	66,113.25	210.5	111.02	1,931.19
Drumbo	50.00	45.00	11,991.88	31.7	16.72	446.28
Dublin	70.00	70.00	16,095.31	31.1	16.40	516.45
Dundas	23.00	23.00	350,038.58	1,471.9	776.31	6,074.52
Dunnville	42.00	38.00	149,908.44	363.1	191.50	2,135.15
Dutton	44.00	43.00	47,615.38	148.0	78.05	1,761.69
Elmira	38.00	34.00	181,167.21	600.9	316.92	3,957.47
Elora	40.00	38.00	94,503.78	271.9	143.40	2,241.62
Embro	70.00	68.00	28,246.02	51.8	27.32	1,139.32
Erieau	.....	84.28	6,110.95	4.2	2.21	66.01
Essex	67.61	49.00	74,761.59	158.8	83.76	1,434.18

SYSTEM—Continued *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,954.04	1,030.47	936.45	1,623.09	13,756.90	15,080.12	1,323.22	.....
159.92	39.19	86.62	.....	1,354.58	1,763.60	409.02	.....
2,868.89	500.67	283.28	835.51	5,888.19	6,167.00	278.81	.....
2,892.38	572.22	170.78	154.43	5,198.34	7,277.97	2,079.63	.....
3,657.68	422.26	600.75	543.25	6,788.04	6,892.32	104.28	.....
5,204.11	828.44	582.08	1,076.89	10,265.53	12,486.53	2,221.00	.....
1,332.15	198.77	184.50	470.79	2,887.90	3,879.56	991.66	.....
3,540.23	524.74	524.70	981.02	7,602.62	8,394.30	791.68	.....
4,086.84	497.00	638.77	577.63	7,135.02	8,238.05	1,103.03	.....
6,054.18	832.25	924.08	1,479.41	12,436.17	15,021.08	2,584.91	.....
1,188.20	185.85	133.20	120.45	2,322.53	4,664.07	2,341.54	.....
4,931.65	737.17	639.68	1,233.69	10,171.34	13,959.47	3,788.13	.....
541.98	106.83	32.18	29.09	1,048.11	1,305.68	257.57	.....
2,867.56	519.65	271.80	939.40	5,463.31	7,046.20	1,582.89	.....
2,976.62	487.06	346.28	1,074.66	6,755.07	8,140.36	1,385.29	.....
17,739.87	2,374.44	2,852.10	4,657.38	36,460.73	38,340.77	1,880.04	.....
94,720.80	10,854.91	16,441.65	19,967.34	177,837.35	182,685.66	4,848.31	.....
2,140.60	238.76	362.25	501.09	4,015.82	4,026.05	10.23	.....
1,930.46	379.73	125.33	712.14	3,959.85	4,147.72	187.87	.....
737.31	141.39	48.82	44.15	1,431.68	1,652.67	220.99	.....
1,635.17	279.42	169.65	425.82	3,479.96	4,397.62	917.66	.....
763.68	123.96	84.15	189.64	1,726.04	2,146.93	420.89	.....
2,117.97	267.86	344.03	472.43	4,193.74	4,435.02	241.28	.....
48,261.88	6,169.99	7,567.65	10,971.71	91,202.05	104,582.91	13,380.86	.....
1,307.79	144.66	230.40	296.77	2,478.22	2,765.94	287.72	.....
525.48	102.64	32.40	29.30	1,225.45	1,444.68	219.23	.....
6,087.16	984.57	703.35	1,387.80	11,944.60	15,173.93	3,229.33	.....
2,793.54	464.78	299.70	814.15	5,509.90	6,533.40	1,023.50	.....
828.25	168.60	42.30	38.26	1,402.06	1,833.26	431.20	.....
1,258.83	235.70	97.43	499.82	2,786.73	2,687.16	.....	99.57
307.21	52.32	33.30	104.27	749.94	1,072.26	322.32	.....
1,642.82	237.45	214.43	193.91	3,752.70	3,525.14	.....	277.56
830.81	122.29	110.70	196.06	2,064.40	2,416.90	352.50	.....
1,844.44	351.47	130.73	496.05	3,895.66	4,012.93	117.27	.....
3,374.37	482.30	473.63	1,043.26	7,415.77	8,000.62	584.85	.....
580.42	93.31	71.33	144.40	1,352.46	1,519.92	167.46	.....
828.05	149.55	69.98	260.68	1,841.11	2,179.88	338.77	.....
17,558.85	1,978.93	3,311.78	4,287.41	33,987.80	34,117.85	130.05	.....
7,839.51	1,293.58	816.98	1,226.51	13,503.23	14,688.62	1,185.39	.....
2,437.95	353.84	333.00	648.29	5,612.82	6,451.42	838.60	.....
9,295.37	1,284.62	1,352.02	2,155.93	18,362.33	21,740.58	3,378.25	.....
4,764.56	738.01	611.78	1,216.51	9,715.88	10,643.35	927.47	.....
1,389.77	267.91	116.55	437.36	3,378.23	3,572.91	194.68	.....
114.60	20.52	9.45	8.55	221.34	356.78	135.44	.....
3,920.56	675.74	357.30	1,128.18	7,599.72	9,523.14	1,923.42	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of
	To June 1, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses
	$ c.	$ c.	$ c.		$ c.	$ c.
Etobicoke twp.	30.00	28.00	267,251.69	952.9	502.58	5,753.89
Exeter	55.00	48.00	106,485.68	267.0	140.82	2,514.82
Fergus	40.00	36.00	95,189.50	273.6	143.78	2,115.53
Ford City	40.00	38.00	426,502.21	1,419.8	748.83	13,090.00
Forest	55.00	55.00	68,503.69	152.2	80.28	1,900.71
Galt	28.00	28.00	1,241,190.70	4,741.8	2,500.91	23,973.78
Georgetown	38.00	38.00	219,231.76	619.7	326.84	4,390.48
Glencoe	70.00	65.00	53,783.93	93.1	49.10	1,514.69
Goderich	57.00	55.00	329,704.31	759.1	400.37	6,561.48
Grantham twp.	17.00	17.00	49,483.09	100.0	52.74	1,046.43
Granton	55.00	55.00	23,911.18	51.7	27.27	795.11
Guelph	27.00	27.00	1,433,541.64	5,737.6	3,026.11	27,950.39
Hagersville	32.00	32.00	228,694.13	776.9	409.75	4,378.97
Hamilton	24.00	24.00	5,981,774.20	23,069.1	12,167.04	95,487.34
Harriston	50.00	50.00	91,893.51	225.9	119.14	2,639.23
Harrow	51.98	65.00	34,156.07	86.0	45.36	647.62
Hensall	75.00	65.00	36,567.18	68.6	36.19	897.46
Hespeler	30.00	30.00	186,081.96	672.5	354.69	3,793.45
Highgate	55.00	50.00	27,205.82	61.7	32.54	618.15
Humberstone	.....	27.68	2,417.28	9.8	5.16	76.97
Ingersoll	30.00	30.00	394,996.21	1,489.5	785.60	9,001.14
Jarvis	48.09	48.09	28,234.67	60.9	32.12	483.60
Kingsville	53.00	53.00	98,931.88	237.3	125.16	2,431.66
Kitchener	27.00	27.00	2,514,726.38	9,818.9	5,178.66	46,317.66
Lambeth	70.00	70.00	21,533.56	51.8	27.32	772.69
Leamington	63.24	54.00	116,873.09	290.8	153.38	2,082.41
Listowel	40.00	40.00	155,084.93	439.1	231.58	3,854.81
London	25.00	25.00	4,731,993.72	18,418.9	9,714.45	73,411.18
London Railway Comn.	.....	.....	373,541.31	1,204.6	635.33	22,797.22
Lucan	40.00	40.00	46,675.70	136.1	71.78	1,434.00
Lynden	45.00	43.00	49,723.63	135.9	71.67	1,054.10
Markham	65.00	60.00	52,778.21	93.0	49.05	882.59
Merlin	60.00	55.00	42,586.88	100.7	53.11	1,061.73
Merritton	20.00	20.00	117,827.14	567.4	299.25	2,289.03
Milton	32.00	32.00	313,793.62	1,056.3	557.11	8,276.82
Milverton	35.00	37.00	151,067.71	466.7	246.15	3,498.23
Mimico	30.00	30.00	278,025.98	1,010.0	532.69	5,420.03
Mitchell	37.00	37.00	95,990.06	298.7	157.54	2,366.42
Moorefield	75.00	75.00	22,084.72	35.6	18.77	886.92
Mount Brydges	70.00	60.00	12,969.95	31.2	16.46	701.94
Newbury	67.10	58.00	13,461.22	27.6	14.56	363.26
New Hamburg	38.00	38.00	117,692.44	365.0	192.51	3,093.70
New Toronto	30.00	30.00	731,229.36	2,604.0	1,373.39	14,438.32
Niagara Falls	18.00	18.00	1,075,262.67	5,508.0	2,905.01	16,081.25
Niagara-on-the-Lake	26.00	26.00	59,297.10	229.1	120.83	1,373.80

SYSTEM—Continued *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
14,005.68	1,774.43	2,144.03	2,171.74	26,352.35	27,762.28	1,409.93	.....
5,398.00	895.51	600.75	1,287.92	10,837.82	13,864.93	3,027.11	.....
4,838.49	745.51	613.35	1,193.78	9,650.44	10,477.99	827.55	.....
22,428.53	2,994.83	3,194.55	5,699.40	48,156.14	55,625.19	7,469.05	.....
3,526.23	605.20	342.45	1,268.90	7,723.77	8,370.32	646.55	.....
62,738.48	7,804.19	10,669.05	15,869.81	123,556.22	137,053.75	13,497.53	.....
10,940.70	1,731.41	1,394.32	2,975.93	21,759.68	23,549.08	1,789.40	.....
2,783.58	518.49	209.48	189.42	5,264.76	6,330.88	1,066.12	.....
16,651.43	2,877.55	1,707.98	4,153.17	32,351.98	41,379.96	9,027.98	.....
2,349.40	447.00	225.00	740.06	4,860.63	3,621.27	.....	1,239.36
1,222.53	214.30	116.33	339.83	2,715.37	2,844.87	129.50	.....
72,811.00	8,585.81	12,909.60	17,968.00	143,260.91	154,915.75	11,654.84	.....
11,799.80	1,586.18	1,748.03	2,533.27	22,456.00	24,861.40	2,405.40	.....
305,690.84	37,203.04	51,905.48	76,106.00	578,559.74	558,601.84	.....	19,957.90
4,710.60	779.32	508.28	1,223.69	9,980.26	11,298.26	1,318.00	.....
1,797.93	286.80	193.50	497.00	3,468.21	4,851.98	1,383.77	.....
1,844.53	345.17	154.35	742.24	4,019.94	4,845.46	825.52	.....
9,369.90	1,232.47	1,513.12	2,431.65	18,695.28	21,687.65	2,992.37	.....
1,388.75	238.82	138.83	497.74	2,914.83	3,271.96	357.13	.....
130.44	14.56	22.05	26.15	275.33	272.18	.....	3.15
19,707.88	2,515.03	3,351.37	5,076.58	40,437.60	48,074.37	7,636.77	.....
1,302.47	210.23	137.03	123.91	2,289.36	2,929.45	640.09	.....
5,311.91	876.77	533.93	1,494.32	10,773.75	13,327.52	2,553.77	.....
127,695.74	15,436.04	22,092.53	31,818.88	248,539.51	270,859.95	22,320.44	.....
1,094.38	183.13	116.55	265.41	2,459.48	3,624.20	1,164.72	.....
6,205.43	1,000.44	654.30	1,724.69	11,820.65	17,384.38	5,563.73	.....
7,967.94	1,221.38	987.98	2,133.37	16,397.06	17,564.10	1,167.04	.....
238,977.04	29,099.08	41,442.53	59,894.07	452,538.35	460,473.12	7,934.77	.....
18,766.02	2,706.69	2,710.35	5,080.94	52,696.55	38,881.31	.....	13,815.24
2,339.74	360.77	306.23	819.19	5,331.71	5,444.30	112.59	.....
2,522.67	399.35	305.78	702.23	5,055.80	6,010.59	954.79	.....
2,720.24	503.17	209.25	274.07	4,638.37	5,892.01	1,253.64	.....
2,232.23	367.71	226.58	204.89	4,146.25	5,149.08	1,002.83	.....
6,357.96	563.29	1,276.66	1,283.26	12,069.45	11,348.82	.....	720.63
16,016.81	2,200.76	2,376.67	3,729.08	33,157.25	33,800.92	643.67	.....
7,833.20	1,126.40	1,050.08	1,816.53	15,570.59	16,707.05	1,136.46	.....
14,384.78	1,812.33	2,272.50	3,397.99	27,820.32	30,301.75	2,481.43	.....
4,671.83	712.63	672.07	1,317.97	9,898.46	11,050.95	1,152.49	.....
1,134.06	216.12	80.10	247.37	3,583.34	2,671.08	87.74	.....
636.84	110.30	70.20	254.70	1,790.44	2,048.02	257.58	.....
699.70	123.06	62.10	56.16	1,318.84	1,750.82	431.98	.....
5,776.64	869.66	821.25	1,608.85	12,362.61	13,869.03	1,506.42	.....
37,209.41	4,889.18	5,859.00	9,884.61	73,653.91	78,120.71	4,466.80	.....
57,270.28	4,645.59	12,393.00	12,053.74	105,348.87	99,144.82	.....	6,204.05
2,938.35	326.82	515.48	495.80	5,771.08	5,956.03	184.95	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of
	To June 1, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses
	$ c.	$ c.	$ c.		$ c.	$ c.
North York twp.	35.00	35.00	61,027.64	200.0	105.48	2,705.61
Norwich	40.00	36.00	110,300.85	353.5	186.44	3,294.38
Oil Springs	40.00	35.00	89,561.03	265.0	139.77	2,091.90
Otterville	52.00	50.00	18,987.82	47.8	25.21	540.12
Palmerston	45.00	44.00	97,342.28	265.7	140.14	2,966.72
Paris	28.00	28.00	270,074.29	998.9	526.83	4,892.01
Parkhill	70.00	63.00	52,539.78	81.8	43.15	1,032.42
Petrolia	36.00	36.00	282,207.18	855.2	451.05	6,432.23
Plattsville	90.00	90.00	22,190.73	37.1	19.56	983.27
Point Edward	40.00	40.00	89,516.88	288.1	151.94	3,251.99
Port Colborne	27.00	27.00	131,840.12	534.5	281.91	4,020.78
Port Credit	35.00	32.00	61,981.83	213.9	112.82	1,845.38
Port Dalhousie	24.00	26.00	61,193.55	212.7	112.19	1,514.47
Port Dover	60.00	45.00	47,969.68	113.6	59.91	1,014.63
Port Robinson	20.00	20.00	6,590.45	24.9	13.13	107.08
Port Stanley	48.00	45.00	80,793.01	218.8	115.40	2,459.20
Preston	27.00	27.00	578,165.42	2,240.9	1,181.89	10,945.87
Princeton	75.00	75.00	16,020.26	28.1	14.83	449.37
Queenston	20.00	20.00	17,892.21	61.1	32.22	309.31
Ridgetown	45.00	40.00	96,981.83	274.4	144.72	2,565.80
Riverside	45.00	40.00	102,429.02	324.4	171.10	2,975.29
Rockwood	60.00	55.00	24,494.86	53.8	28.37	851.13
Rodney	48.00	48.00	27,568.34	72.4	38.18	954.50
St. Catharines	20.00	20.00	1,100,037.44	5,048.7	2,662.77	16,290.27
St. Clair Beach	75.00	50.00	15,238.68	43.9	23.16	468.95
St. George	40.00	40.00	31,587.21	77.7	40.99	733.66
St. Jacobs	40.00	40.00	15,059.81	46.1	24.31	566.79
St. Marys	35.00	35.00	256,654.17	828.7	437.07	7,618.96
St. Thomas	30.00	30.00	977,953.66	3,739.0	1,972.02	22,353.43
Sandwich	32.38	33.00	284,971.43	963.4	508.11	8,920.63
Sarnia	35.00	35.00	1,306,970.04	4,237.2	2,234.77	25,956.91
Scarboro twp.	35.00	33.00	15,635.77	1,036.4	27,030.50	707.33
Seaforth	40.00	40.00	141,814.77	407.5	214.92	3,221.32
Simcoe	34.00	31.00	171,730.58	566.6	298.83	3,490.77
Springfield	65.00	75.00	16,296.46	29.9	15.77	736.71
Stamford twp.	20.00	20.00	129,766.84	636.1	335.49	2,753.54
Stouffville	70.00	70.00	44,450.05	79.9	42.14	456.93
Stratford	30.00	30.00	1,413,527.81	5,074.1	2,676.17	31,124.68
Strathroy	40.00	38.00	189,462.29	557.0	293.77	3,370.96
Streetsville	.....	.....	142,395.53	450.7	237.73	3,595.50
Sutton	70.00	70.00	25,526.58	53.9	28.42	1,153.39
Tavistock	37.00	43.00	77,724.13	210.2	110.86	1,878.25
Tecumseh	52.00	45.00	35,377.17	104.4	55.06	1,071.73
Thamesford	50.00	47.00	41,580.14	109.8	57.91	1,239.26
Thamesville	50.00	50.00	36,364.61	100.4	52.95	1,047.26

SYSTEM—Continued *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1914

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,191.41	426.13	450.00	589.39	7,468.02	6,998.48	.....	469.54
5,507.72	803.07	795.38	1,399.05	11,986.04	13,548.87	1,562.83	.....
4,668.54	685.37	596.25	814.91	8,996.74	10,082.21	1,085.47	.....
980.18	159.43	107.55	224.62	2,037.11	2,447.46	410.35	.....
5,022.29	782.67	597.82	1,021.58	10,531.22	11,837.68	1,306.46	.....
13,226.78	1,578.18	2,247.53	2,889.98	25,361.31	28,030.12	2,668.81	.....
2,722.80	522.93	184.05	166.43	4,671.78	5,482.08	810.30	.....
14,582.38	2,127.76	1,924.20	3,300.74	28,818.36	35,535.92	4,717.56	.....
1,018.27	210.16	83.48	241.32	2,556.06	3,341.25	785.19	.....
4,685.76	642.59	648.23	1,009.33	10,389.84	11,558.92	1,169.08	.....
7,009.55	794.49	1,202.63	1,426.54	14,735.90	14,431.05	.....	304.85
3,186.48	426.16	481.28	743.33	6,795.45	7,405.60	610.15	.....
2,874.13	343.12	478.58	665.78	5,988.27	6,018.88	30.61	.....
2,432.66	395.30	255.60	231.15	4,389.25	5,992.49	1,603.24	.....
249.47	42.62	56.03	76.80	545.13	498.33	.....	46.80
3,916.11	653.19	492.30	1,175.89	8,812.09	10,060.84	1,248.75	.....
29,132.35	3,583.14	5,042.03	7,348.58	57,233.86	60,587.10	3,353.24	.....
777.94	150.08	63.23	218.71	1,674.16	2,106.87	432.71	.....
824.33	95.32	137.48	127.67	1,526.33	1,221.30	.....	305.03
4,941.79	761.96	617.40	1,264.81	10,296.48	11,774.54	1,478.06	.....
5,382.94	746.53	729.90	1,391.87	11,397.63	13,841.75	2,444.12	.....
1,201.95	218.67	121.05	357.60	2,778.77	3,122.30	343.53	.....
1,425.73	226.68	162.90	392.44	3,200.43	3,474.80	274.37	.....
58,597.16	5,215.72	11,359.58	11,693.39	105,818.89	105,849.59	30.70	.....
798.65	118.25	98.78	213.15	1,720.94	2,661.85	940.91	.....
1,546.85	254.52	174.83	436.45	3,187.30	3,109.29	.....	78.01
752.61	108.64	103.73	331.35	1,887.43	1,844.30	.....	43.13
12,342.68	1,820.41	1,864.58	3,430.85	27,514.55	29,006.30	1,491.75	.....
48,806.81	6,144.29	8,412.75	12,500.00	100,189.30	113,205.38	13,016.08	.....
15,114.97	1,989.85	2,167.65	1,960.20	30,661.41	31,539.56	878.15	.....
67,751.27	9,409.15	9,533.70	15,985.99	130,871.79	148,300.73	17,428.94	.....
724.88	193.38	2,331.90	178.28	31,166.27	35,416.11	4,249.84	.....
6,472.58	1,107.97	916.88	1,993.53	13,927.20	16,299.34	2,372.14	.....
8,560.34	1,126.10	1,274.85	1,558.94	16,309.83	18,539.51	2,229.68	.....
842.18	155.07	67.28	253.10	2,070.11	1,861.98	.....	208.13
6,878.98	605.84	1,431.23	1,454.29	13,459.37	12,847.47	.....	611.90
2,305.64	421.12	179.77	235.46	3,641.06	5,592.98	1,951.92	.....
72,033.74	9,392.35	11,416.73	18,481.28	145,124.95	152,223.50	7,098.55	.....
9,591.18	1,459.57	1,253.25	2,499.10	18,467.83	21,174.03	2,706.20	.....
7,337.25	1,045.30	1,014.09	1,945.45	15,175.32	17,367.87	2,192.55	.....
1,317.94	226.32	121.27	158.84	3,006.18	3,777.64	771.46	.....
3,961.35	627.73	472.95	1,349.13	8,400.27	8,321.71	.....	78.56
1,852.89	270.41	234.90	491.39	3,976.38	5,053.20	1,086.82	.....
2,086.54	340.25	247.05	613.57	4,584.58	5,360.32	775.74	.....
1,842.51	289.50	225.90	482.97	3,941.09	5,020.80	1,079.71	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality or Rural Power District	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	To June 1, 1924	To Oct. 31, 1924				
	$ c.	$ c.	$ c.		$ c.	$ c.
Thedford	110.00	80.00	33,386.41	40.8	21.52	756.12
Thorndale	70.00	70.00	22,185.27	42.0	22.15	843.41
Thorold	22.25	20.00	144,204.06	665.9	351.20	2,780.98
Tilbury	45.00	40.00	105,192.17	314.0	165.61	2,319.00
Tillsonburg	45.00	40.00	153,644.20	475.7	250.89	4,934.39
Toronto	24.00	24.00	43,274,371.35	160,041.9	84,408.93	597,133.32
Toronto twp	30.00	30.00	146,851.32	527.8	278.37	4,598.38
Walkerville	33.00	33.00	1,403,721.92	4,677.6	2,467.05	22,700.16
Wallaceburg	35.00	35.00	352,733.88	1,111.8	586.38	6,992.91
Wardsville	82.20	77.00	9,256.48	13.9	7.33	220.95
Waterdown	36.00	40.00	63,530.25	195.3	103.00	1,525.84
Waterford	35.00	34.00	60,254.44	192.9	101.74	1,639.28
Waterloo	28.00	28.00	523,880.48	2,029.7	1,070.50	9,835.36
Watford	70.00	60.00	44,890.80	92.5	48.79	1,277.60
Welland	23.00	23.00	483,033.88	2,109.0	1,112.33	7,507.73
Wellesley	44.00	44.00	55,427.97	138.3	72.94	1,365.43
West Lorne	40.00	40.00	88,519.91	266.7	140.66	3,015.71
Weston	30.00	28.00	510,579.85	1,887.8	995.66	9,057.12
Wheatley	.....	91.00	24,319.17	35.1	18.51	299.61
Windsor	33.00	30.00	3,833,321.94	12,900.6	6,803.99	61,850.15
Woodbridge	38.00	36.00	87,078.59	268.1	141.40	2,192.78
Woodstock	28.00	28.00	773,878.64	3,108.2	1,639.32	15,458.93
Wyoming	62.00	62.00	20,648.54	44.5	23.47	608.87
Zurich	74.00	68.00	37,765.92	60.9	32.11	1,021.23
RURAL POWER DISTRICTS*						
Amherstburg—Anderdon and Malden twps.			94,268.31	260.9	137.60	2,324.53
Aylmer—Dorchester S. and Yarmouth twps			4,550.15	11.3	5.96	219.36
Baden—Wilmot twp			7,469.84	22.6	11.92	191.89
Barton—Barton and Glanford twp			2,269.03	6.8	3.58	61.47
Beamsville—Grimsby N., Clinton and Louth twps			52,552.36	150.6	79.42	1,054.22
Belle River—Maidstone and Rochester twps			39,696.24	99.2	52.32	1,125.18
Blenheim—Raleigh and Harwich twps			423.90	1.2	0.62	26.05
Bolton—Albion twp			193.44	0.4	0.21	2.39
Bond Lake—King, Markham and Whitchurch twps			17,957.18	51.5	27.16	860.51
Bothwell—Ekfrid and Mosa twps			2,454.24	4.3	2.26	52.40
Brampton—Chinguacousy and Toronto twps			896.13	3.2	1.69	19.62
Brant—Brantford and Dumfries S. twps			7,783.23	27.3	14.40	361.32
Chatham—Dover E., Raleigh and Harwich twps			16,709.31	58.1	30.65	655.28
Chippawa—Willoughby and Bertie twps			15,184.63	61.0	32.19	234.22
Delaware—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps			17,819.87	50.9	26.85	528.65

SYSTEM—Continued *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,728.70	350.01	91.80	83.02	3,031.17	3,983.46	952.29	.....
1,047.03	208.66	94.50	377.05	2,592.80	2,940.65	347.85	.....
7,741.99	728.64	1,498.28	1,617.96	14,719.05	14,250.23	.....	468.82
5,404.80	795.24	706.50	1,027.24	10,418.39	13,438.80	3,020.41	.....
7,196.55	1,145.98	1,070.33	2,114.87	16,713.01	20,491.52	3,778.51	.....
2,195,787.89	268,379.33	360,094.27	497,877.13	4,003,680.87	3,841,108.00	.....	162,572.87
7,628.69	975.86	1,187.55	1,460.76	16,129.61	15,833.25	.....	296.36
70,370.50	9,848.96	10,524.60	19,033.19	134,944.46	154,622.26	19,677.80	.....
17,792.48	2,515.82	2,501.55	4,767.88	35,157.02	38,914.06	3,757.04	.....
480.07	92.94	31.28	28.28	860.85	1,111.30	250.45	.....
3,058.98	451.19	439.43	840.50	6,418.94	7,398.59	979.65	.....
2,952.03	405.40	434.03	711.48	6,243.96	6,671.80	427.84	.....
26,548.58	3,241.37	4,566.82	6,650.16	51,912.79	57,783.75	5,870.96	.....
2,318.63	408.70	208.13	920.82	5,182.67	6,072.64	889.97	.....
24,877.76	2,668.36	4,745.25	7,868.13	48,779.56	48,704.54	.....	75.02
2,826.81	464.78	311.17	797.61	5,838.74	6,086.22	247.48	.....
4,623.33	672.08	600.08	700.97	9,752.83	10,669.79	916.96	.....
25,969.18	3,298.65	4,247.55	6,594.06	50,162.22	55,056.14	4,893.92	.....
1,266.95	246.79	78.98	389.67	2,300.51	3,190.27	889.76	.....
199,742.39	26,972.26	29,026.35	39,646.69	364,041.83	419,577.76	55,535.93	.....
4,361.67	625.74	603.23	1,002.88	8,927.70	9,967.74	1,040.04	.....
39,504.88	4,618.52	6,993.45	9,686.73	77,901.83	87,028.71	9,126.88	.....
1,047.65	185.30	100.13	313.75	2,279.17	2,760.01	480.84	.....
1,945.87	372.74	137.03	633.34	4,142.32	4,347.88	205.56	.....
4,974.10	753.19	587.03	1,339.45	10,115.90	10,115.90	.....	.....
216.75	38.49	25.43	66.46	572.45	572.45	.....	.....
377.67	56.10	50.85	102.86	791.29	791.29	.....	.....
107.10	14.14	15.30	27.00	228.59	228.59	.....	.....
2,681.37	393.40	338.85	690.47	5,237.73	5,237.73	.....	.....
1,984.73	311.42	223.20	545.34	4,242.19	4,242.19	.....	.....
21.44	3.11	2.70	5.65	59.57	59.57	.....	.....
9.94	1.71	0.90	2.86	18.01	18.01	.....	.....
932.32	136.62	115.87	213.48	2,285.96	2,285.96	.....	.....
128.12	23.64	9.68	38.23	254.33	254.33	.....	.....
47.67	5.98	7.20	11.75	93.91	93.91	.....	.....
360.28	43.70	61.43	89.58	930.71	930.71	.....	.....
855.89	113.90	130.73	220.76	2,007.21	2,007.21	.....	.....
804.70	92.41	137.25	185.75	1,486.52	1,486.52	.....	.....
928.35	138.20	114.53	248.72	1,985.30	1,985.30	.....	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	$ c.		$ c.	$ c.
Dorchester—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps....	28,541.76	88.7	46.78	816.58
Drumbo—Blenheim and Blandford twps...	8,849.43	17.5	9.23	223.54
Dundas—Barton, Flamboro W., Beverley and Ancaster twps....	6,900.28	27.7	14.62	219.70
Exeter—Hay, Stephen and Usborne twps..	17,923.46	43.2	22.78	381.90
Galt—Dumfries N. twp....	5,732.43	21.9	11.55	107.37
Harrow—Colchester S. twp....	1,588.62	4.0	2.11	29.02
Homer—Grantham twp....	2,306.88	10.8	5.69	179.63
Ingersoll—Oxford N. twp....	79.52	0.3	0.16	19.33
Jordan—Louth, Thorold and Grantham twps....	3,807.24	15.9	8.38	135.36
Keswick—Georgina and Gwillimbury twps.	22,811.44	61.9	32.64	1,082.04
Kingsville—Gosfield S. and Mersea twps..	17,593.48	42.2	22.25	420.99
Lansing—Vaughan and York N. twps.....	8,818.50	28.9	15.24	862.18
Leamington—Gosfield N., Gosfield S. and Mersea twps....	35,246.79	87.7	46.25	614.35
London — Westminster, Delaware and London twps....	62,487.68	222.7	117.45	1,886.74
Lynden—Beverley and Ancaster twps.....	10,171.55	27.8	14.66	241.52
Markham—Markham and Scarboro twps..	2,235.26	33.3	868.51	219.54
Mount Joy—Markham twp....	1,199.71	1.6	0.84	20.45
Niagara—Niagara twp....	17,935.11	73.6	38.82	267.82
Newmarket—King twp....	551.27	1.7	0.89	141.39
Petrolia—Sarnia twp....	4,341.46	9.5	5.01	101.71
Preston—Waterloo twp....	42,090.20	138.7	73.15	746.99
Ridgetown—Howard, Oxford and Harwich twps....	13,958.55	37.5	19.77	397.08
St. Jacobs—Wellesley and Woolwich twps.	16,301.21	49.9	26.32	505.30
St. Thomas—Southwold and Yarmouth twps....	28,713.03	96.3	50.79	714.00
Saltfleet—Saltfleet, Barton and Grimsby N. twps....	66,620.50	215.9	113.87	1,255.45
Sandwich—Sandwich W., Sandwich E. and Sandwich S. twps....	96,937.41	324.3	171.05	3,437.29
Sarnia—Sarnia and Moore twps.....	14,268.38	43.0	22.68	574.27
Scarboro—Scarboro and York twps.....	40.65	6.0	156.49	20.02
Simcoe—Woodhouse twp....	5,139.87	13.8	7.28	201.35
Stamford—Thorold twp....	7,849.05	37.5	19.78	132.72
Stratford—Ellice and Downie twps.....	13,029.74	45.9	24.21	300.53
Streetsville—Toronto twp...	197.55	0.7	0.36	4.78
Tavistock—Easthope N. and Easthope S. twps....	11,129.84	30.1	15.87	262.03
Tilbury—Tilbury E. and Raleigh twps....	435.49	1.3	0.68	9.20
Tillsonburg—Dereham twp....	6,607.32	19.2	10.13	265.10

SYSTEM—Continued *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1914

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,463.40	211.77	199.58	391.60	3,129.71	3,129.71	.....	.....
443.33	79.38	39.38	131.40	926.26	926.26	.....	.....
342.82	41.14	62.33	86.29	766.90	766.90	.....	.....
933.15	153.56	97.20	263.34	1,851.93	1,851.93	.....	.....
303.32	36.03	49.28	73.29	580.84	580.84	.....	.....
83.60	13.34	9.00	23.11	160.18	160.18	.....	.....
122.08	11.16	24.30	24.99	367.85	367.85	.....	.....
(2.99)	0.53	0.68	1.07	18.78	18.78	.....	.....
198.71	21.87	35.78	44.88	444.98	444.98	.....	.....
1,183.09	179.42	139.27	278.50	2,894.96	2,894.96	.....	.....
925.11	151.15	94.95	258.89	1,873.35	1,873.35	.....	.....
461.13	61.58	65.02	98.06	1,563.21	1,563.21	.....	.....
1,854.85	297.68	197.33	514.32	3,524.78	3,524.78	.....	.....
3,254.35	402.34	501.08	796.89	6,958.85	6,958.85	.....	.....
526.55	81.70	62.55	144.79	1,071.77	1,071.77	.....	.....
109.02	27.88	74.92	40.16	1,340.03	1,340.03	.....	.....
62.07	12.31	3.60	18.23	117.50	117.50	.....	.....
894.69	91.37	165.60	200.58	1,658.88	1,658.88	.....	.....
28.74	4.02	3.82	6.34	185.20	185.20	.....	.....
227.02	38.66	21.38	64.95	458.73	458.73	.....	.....
2,174.97	300.65	312.07	568.43	4,176.26	4,176.26	.....	.....
713.17	112.93	84.38	199.27	1,526.60	1,526.60	.....	.....
839.02	117.58	112.28	218.06	1,818.56	1,818.56	.....	.....
1,523.52	202.31	216.68	385.41	3,092.71	3,092.71	.....	.....
3,365.94	463.64	485.78	878.52	6,563.20	6,563.20	.....	.....
5,121.22	679.45	708.08	1,295.18	11,412.27	11,412.27	.....	.....
746.75	106.83	96.75	195.83	1,743.11	1,743.11	.....	.....
2.04	0.49	13.50	0.71	193.25	193.25	.....	.....
259.23	39.42	31.05	70.25	608.58	608.58	.....	.....
397.66	33.89	84.38	83.97	752.40	752.40	.....	.....
682.80	85.72	103.28	168.27	1,364.81	1,364.81	.....	.....
10.15	1.34	1.58	2.60	20.81	20.81	.....	.....
583.85	89.90	67.72	158.85	1,178.22	1,178.22	.....	.....
22.88	3.28	2.93	6.01	44.89	44.98	.....	.....
349.35	51.36	43.20	92.72	811.86	811.86	.....	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	$ c.		$ c.	$ c.
Wallaceburg—Dover, Chatham and Sombra twps.	16,117.08	50.8	26.79	364.99
Waterdown—Flamboro E. twp.	3,121.39	9.6	5.06	119.83
Waterford—Townsend twp.	4,716.64	15.1	7.97	117.35
Welland—Talham, Crowland and Humberstone twp.	94,966.37	369.0	2,673.10	2,063.25
Woodbridge—Vaughan and York N. twps.	20,066.13	56.9	30.01	390.00
Woodstock—Oxford W., Oxford E., Blandford and Zorra E. twps.	37,344.43	144.1	76.00	785.93
Totals—Municipalities	89,357,512.80	327,678.3	200,290.45	1,495,550.39
Totals—Rural Power Districts	1,039,000.56	3,335.8	5,242.05	28,355.71
Totals—Hydro Radial Railways	1,181,857.40	3,600.3	1,898.86	35,473.59
Totals—Companies	51,047,860.74	236,980.8	124,987.87	791,209.34
	142,626,231.50			
Non-operating capital	4,771,586.00			
Grand totals	147,397,817.50	571,595.2	332,419.23	2,350,589.03

*The Commission supplies power to and operates the rural power districts. Revenue derived therefrom is applied to meet the cost of providing the power generated and transmitted to each of the rural districts as shown in above table of costs.

The results of the operations in rural power districts are shown in operating reports on pages 160 to 163.

SYSTEM—Continued *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
835.10	114.95	114.30	215.15	1,671.28	1,671.28	.....	.....
158.58	22.29	21.60	41.46	368.82	368.82	.....	.....
239.14	31.73	33.98	60.44	490.61	490.61	.....	.....
5,063 77	586.56	830.25	1,109.41	12,326.34	12,326.34	.....	.....
1,035.29	152.46	128.03	275.12	2,010.91	2,010.91	.....	.....
1,940.95	232.45	324.23	475.49	3,835.05	3,835.05	.....	.....
4,543,738.87	570,242.95	737,274.21	1,059,838.19	8,606,935.06	88,72,645.38	383,536.80	207,826.48
53,909.85	7,472.14	7,484.05	13,751.19	116,214.99	116,214.99	.....	.....
61,574.82	8,674.60	8,100.67	14,012.87	129,735.41	129,735.41	.....	.....
2,767,743.73	258,572.82	.....	575,177.56	4,517,691.32	3,878,149.88	.....	639,541.44†
7,426,967.27	844,962.51	752,858.93	1,662,779.81	13,370,576.78	12,906,745.66	.....	.....

†Written out through Contingencies.

NIAGARA SYSTEM—

Operating Report for year

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act*
	Total	Government grant	Balance	
	$ c.	$ c.	$ c.	$ c.
Amherstburg—Anderdon and Malden twps...	15,912.48	7,956.24	7,956.24	10,115.90
Aylmer—Dorchester S. and Yarmouth twps...	13,281.02	6,640.51	6,640.51	572.45
Baden—Wilmot twp.	12,871.42	6,435.71	6,435.71	791.29
Barton—Barton and Glanford twps.	8,732.25	4,366.12	4,366.13	228 59
Beamsville—Grimsby N., Clinton and Louth twps.	107,783.05	52,237.75	55,545.30	5,237.73
Belle River—Maidstone and Rochester twps..	26,791.73	13,395.86	13,395.87	4,242.19
Blenheim—Raleigh and Harwich twps.	8,731.41	3,597.32	5,134.09	59 57
Bolton—Albion twp.	1,556.35	778.18	778.17	18.01
Bond Lake—King, Markham and Whitchurch twps.	43,458.06	19,605.81	23,852.25	2,285.96
Bothwell—Ekfrid and Mosa twps.	1,180.11	590.06	590.05	254.33
Brampton—Chinguacousy and Toronto twps..	2,547.94	1,273.97	1,273.97	93.91
Brant—Brantford and Dumfries S. twps.	26,909.69	13,175.55	13,734.14	930.71
Chatham—Dover E., Raleigh and Harwich twps.	44,682.86	22,341.43	22,341.43	2,007.21
Chippawa—Willoughby and Bertie twps.	28,232.86	14,116.43	14,116.43	1,486.52
Delaware—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps.	37,195.28	18,435.76	18,759.52	1,985.30
Dorchester—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps.	69,514.82	33,432.65	36,082.17	3,129.71
Drumbo—Blenheim and Blandford twps.	13,579.57	6,494.28	7,085.29	926.26
Dundas—Barton, Flamboro W., Beverley and Ancaster twps.	26,715.28	13,357.64	13,357.64	766.90
Exeter—Hay, Stephen and Usborne twps.	22,813.54	10,973.46	11,840.08	1,851.93
Galt—Dumfries N. twp.	6,735.30	3,367.65	3,367.65	580.84
Harrow—Colchester S. twp.	720.08	360.04	360.04	160.18
Homer—Grantham twp.	9,740.34	4,870.17	4,870.17	367.85
Ingersoll—Oxford N. twp.	822.46	411.23	411.23	18.78
Jordan—Louth, Thorold and Grantham twps.	28,236.77	14,118.39	14,118.38	444.98
Keswick—Georgina and Gwillimbury twps...	23,763.98	10,835.02	12,928.96	2,894.96
Kingsville—Gosfield S. and Mersea twps.	25,381.39	12,690.70	12,690.69	1,873.35
Lansing—Vaughan and York N., twps.	27,839.73	13,919.86	13,919.87	1,563.21
Leamington—Gosfield N., Gosfield S. and Mersea twps.	22,195.98	11,097.99	11,097.99	3,524.78
London—Westminster, Delaware and London twps.	99,069.93	49,534.96	49,534.97	6,958.85
Lynden—Beverley and Ancaster twps.	21,253.14	15,626.57	15,626.57	1,071.77
Markham—Markham and Scarboro twps.	21,090.75	10,545.37	10,545.38	1,340.03
Mount Joy—Markham twp.	1,689.58	462.97	1,226.61	117.50
Niagara—Niagara twp.	43,628.08	21,399.02	22,229.06	1,658.88
Newmarket—King twp.	2,885.21	1,185.72	1,699.49	185.20
Petrolia—Sarnia twp.	3,126.77	1,563.38	1,563.39	458.73

* See "cost of power" table on preceding pages.

RURAL POWER DISTRICTS *RURAL OPERATING*

Ending October 31, 1924

Cost of operation maintenance and administration	Interest on capital investment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
907.81	492.27	318.26	143.21	11,977.45	13,354.04	1,376.59	.....
294.43	337.61	238.63	107.37	1,550.49	1,658.05	107.56	.....
628.60	391.33	257.43	115.83	2,184.48	2,550.17	365.69	.....
53.87	93.02	72.43	32.59	480.50	611.63	131.13	.....
4,461.93	2,862.94	1,960.44	889.61	15,412.65	21,203.39	5,790.74	.....
1,187.87	755.02	516.92	232.61	6,934.61	10,970.65	4,036.04	.....
130.53	59.74	41.39	20.92	312.15	441.30	129.15	.....
3.10	13.32	10.37	4.66	49.46	102.88	53.42	.....
1,205.27	1,145.55	659.17	334.84	5,630.79	7,613.61	1,982.82	.....
105.55	30.00	19.61	8.82	418.31	449.27	30.96	.....
25.70	76.06	50.96	22.93	269.56	394.79	125.23	.....
599.22	762.66	504.89	232.22	3,029.70	6,809.85	3,780.15	.....
1,071.61	1,289.58	881.57	396.70	5,646.67	9,226.02	3,579.35	.....
1,578.56	802.42	563.97	253.78	4,685.25	4,420.72	.....	264.53
1,151.49	1,091.61	733.80	333.12	5,295.32	8,047.35	2,752.03	.....
2,948.66	2,054.62	1,336.76	625.38	10,095.13	15,048.17	4,953.04	.....
334.79	415.85	270.50	127.05	2,074.45	3,829.90	1,755.45	.....
779.65	754.78	522.34	235.04	3,058.71	5,985.65	2,926.94	.....
913.18	674.80	451.45	210.96	4,102.32	6,446.89	2,344.57	.....
107.84	186.69	126.05	56.72	1,058.14	1,500.98	442.84	.....
54.88	24.48	14.40	6.48	260.42	223.79	.....	36.63
152.88	221.70	149.05	67.07	958.55	1,220.57	262.02	.....
30.43	23.25	16.45	7.40	96.31	41.24	.....	55.07
166.46	823.97	561.60	252.72	2,249.73	3,267.38	1,017.65	.....
1,566.93	677.48	365.31	183.20	5,687.88	5,865.52	177.64	.....
1,865.81	786.39	507.63	228.44	5,261.62	7,454.99	2,193.37	.....
1,114.94	662.92	432.96	194.83	3,968.86	6,337.93	2,369.07	.....
2,042.81	725.22	443.92	199.76	6,936.49	11,693.53	4,757.04	.....
3,408.96	1,920.78	1,351.26	608.06	14,247.91	20,535.27	6,287.36	.....
1,282.60	727.77	525.35	236.39	3,843.88	4,380.18	536.30	.....
819.90	608.11	414.78	186.65	3,369.47	5,470.61	2,101.14	.....
44.93	51.89	24.53	17.90	256.75	285.72	28.97	.....
508.03	758.93	565.36	258.14	3,749.34	5,008.26	1,258.92	.....
193.28	113.90	57.05	30.29	579.72	292.88	.....	286.84
55.39	89.04	57.21	25.74	686.11	619.99	.....	66.12

NIAGARA SYSTEM—

Operating Report for year

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act*
	Total	Government grant	Balance	
	$ c.	$ c.	$ c.	$ c.
Preston—Waterloo twp.	76,874.52	38,437.26	38,437.26	4,176.26
Ridgetown—Howard, Oxford and Harwich twps.	40,066.38	20,033.19	20,033.19	1,526.60
St. Jacobs—Wellesley and Woolwich twps.	37,155.58	18,577.79	18,577.79	1,818.56
St. Thomas—Southwold and Yarmouth twps.	70,823.68	35,411.84	35,411.84	3,092.71
Saltfleet—Saltfleet, Barton and Grimsby N. twps.	158,151.74	79,075.87	79,075.87	6,563.20
Sandwich—Sandwich W., Sandwich E. and Sandwich S. twps.	62,316.27	31,158.13	31,158.14	11,412.27
Sarnia—Sarnia and Moore twps.	23,435.52	9,858.43	13,577.09	1,743.11
Scarboro—Scarboro and York N. twps.	8,731.14	4,146.44	4,584.70	193.25
Simcoe—Woodhouse twp.	4,088.23	1,214.06	2,874.17	608.58
Stamford—Thorold twp.	16,751.47	8,375.73	8,375.74	752.40
Stratford—Ellice and Downie twps.	8,198.82	4,099.41	4,099.41	1,364.81
Streetsville—Toronto twp.	2,058.45	1,029.23	1,029.22	20.81
Tavistock—Easthope N. and Easthope S. twps.	10,292.54	5,146.27	5,146.27	1,178.22
Tilbury—Tilbury E. and Raleigh twps.	396.09	198.05	190.04	44.98
Tillsonburg—Dereham twp.	12,327.87	6,163.93	6,163.94	811.86
Wallaceburg—Dover, Chatham and Sombra twps.	52,865.39	26,432.69	26,432.70	1,671.28
Waterdown—Flamboro E. twp.	9,981.95	4,990.98	4,990.97	368.82
Waterford—Townsend twp.	4,723.56	2,361.78	2,361.78	490.61
Welland—Pelham, Crowland and Humberstone twps.	86,235.72	43,117.86	43,117.86	12,326.34
Woodbridge—Vaughan and York N. twp.	13,475.56	5,698.55	7,777.01	2,010.91
Woodstock—Oxford W., Oxford E., Blandford and Zorra E. twps.	91,855.46	45,927.73	45,927.73	3,835.05
Totals	1,651,475.15	812,648.99	838,826.16	116,214.99

*See "cost of power" table on preceding pages.

RURAL POWER DISTRICTS *RURAL OPERATING*

Ending October 31, 1924

Cost of operation maintenance and administration	Interest on capital investment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,328.56	2,189.02	586.65	263.99	10,544.48	15,994.95	5,450.47	.....
969.83	1,148.33	791.35	356.09	4,792.20	8,049.02	3,256.82	.....
1,062.36	593.74	429.96	193.48	4,098.10	5,861.06	1,762.96	.....
4,078.37	1,913.63	1,321.24	594.56	11,000.51	18,111.41	7,110.90	.....
9,882.32	4,546.12	3,094.61	1,392.57	25,478.82	29,153.27	3,674.45	.....
4,802.84	1,256.38	872.63	392.67	18,736.79	24,483.24	5,746.45	.....
916.52	700.66	405.22	210.23	3,975.74	6,554.74	2,579.00	.....
122.62	224.83	149.93	71.41	762.04	1,359.53	597.49	.....
68.72	163.13	79.56	49.85	969.84	1,231.25	261.41	.....
1,699.62	498.55	319.97	143.98	3,414.52	5,456.02	2,041.50	.....
211.91	61.10	47.59	21.40	1,706.81	2,293.09	586.28	.....
15.72	56.22	41.09	18.49	152.33	276.31	123.98	.....
370.93	297.37	205.05	92.27	2,143.84	2,940.67	796.83	.....
25.95	10.94	6.60	2.97	91.44	180.93	89.49	.....
415.86	334.16	225.71	101.56	1,889.15	2,267.60	378.45	.....
1,089.90	1,366.41	960.02	432.00	5,519.61	10,096.61	4,577.00	.....
305.28	264.92	179.40	80.73	1,199.15	1,375.93	176.78	.....
192.69	99.90	77.80	35.01	896.01	810.44	.....	85.57
5,690.45	1,371.00	885.23	398.35	20,671.37	19,045.33	.....	1,626.04
640.02	391.82	237.20	125.29	3,405.24	3,260.30	.....	144.94
3,499.68	2,682.97	1,828.93	823.01	12,669.64	20,668.22	7,998.58	.....
71,188.04	42,676.90	27,769.54	12,687.34	270,536.81	372,833.09	104,862.02	2,565.74

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Acton	Jan., 1913	1,781.32			1,781.32
Agincourt	Nov., 1922	444.29			444.29
Ailsa Craig	Jan., 1916	83.42			83.42
Alvinston	April, 1922	1,837.83			1,837.83
Ancaster township	May, 1923				
Aylmer	Mar., 1918	1,921.53			1,921.53
Ayr	Jan., 1915	1,039.31			1,039.31
Baden	May, 1912	490.63			490.63
Barton township	Mar., 1924				
Beachville	Aug., 1912	1,658.55			1,658.55
Belle River	Dec., 1922	2,084.08			2,084.08
Blenheim	Nov., 1915	1,109.69			1,109.69
Blyth	July, 1924				
Bolton	Feb., 1915		843.96		1,372.15
Bothwell	Sept., 1915	1,642.04			1,642.04
Brampton	Nov., 1911		870.76	833.46	
Brantford	Feb., 1914	5,307.90			5,372.51
Brantford township	May, 1924				
Brigden	Jan., 1918		1,065.54	1,065.54	
Brussels	July, 1924				
Burford	June, 1915	621.05			621.05
Burgessville	Nov., 1916	295.77			295.77
Caledonia	Oct., 1912	373.97			373.97
Chatham	Feb., 1915	11,395.86			11,395.86
Chippawa	Sept., 1919		671.87	671.87	
Clifford	May, 1924				
Clinton	Mar., 1914	1,063.97			1,063.97
Comber	May, 1915	1,014.48			1,014.48
Courtright	Dec., 1923				
Dashwood	Sept., 1917	79.80			79.80
Delaware	Mar., 1915	475.07			475.07
Dereham township	Sept., 1919		2,552.98	79.15	
Dorchester	Dec., 1914	194.86			194.86
Drayton	May, 1918	261.21			261.21
Dresden	April, 1915	685.54			685.54
Drumbo	Dec., 1914	286.95			286.95
Dublin	Oct., 1917		971.66		
Dundas	Jan., 1911	1,921.81			1,921.81
Dunnville	June, 1918	414 33			414.33
Dutton	Sept., 1915	401.24			401.24
Elmira	Nov., 1913	3,149.13			3,149.13
Elora	Nov., 1914	1,508.12			1,508.12
Embro	Jan., 1915		804.86	804.86	
Erieau	July, 1924				
Essex	Nov., 1923				

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
37.00	.....	1,323.22	.....	1,360.22	.....
9.86	.....	409.02	.....	418.88	.....
1.80	.....	278.81	.....	280.61	.....
41.89	.....	2,079.63	.....	2,121.52	.....
.....	.....	104.28	.....	104.28	.....
44.89	.....	2,221.00	.....	2,265.89	.....
7.71	.....	991.66	.....	999.37	.....
9.78	.....	791.68	.....	801.46	.....
.....	.....	1,103.03	.....	1,103.03	.....
36.98	.....	2,584.91	.....	2,621.89	.....
53.22	.....	2,341.54	.....	2,394.76	.....
23.95	.....	3,788.13	.....	3,812.08	.....
.....	.....	257.57	.....	257.57	.....
.....	69.52	1,582.89	.....	.....	702.74
34.06	.....	1,385.29	.....	1,419.35	.....
.....	18.29	1,880.04	.....	1,824.45	.....
101.03	.....	4,848.31	.....	4,884.73	.....
.....	.....	10.23	.....	10.23	.....
.....	31.86	187.87	.....	156.01	.....
.....	.....	220.99	.....	220.99	.....
14.47	.....	917.66	.....	932.13	.....
6.30	.....	420.89	.....	427.19	.....
7.46	.....	241.28	.....	248.74	.....
227.29	.....	13,380.86	.....	13,608.15	.....
.....	9.98	287.72	.....	277.74	.....
.....	.....	219.23	.....	219.23	.....
21.22	.....	3,229.33	.....	3,250.55	.....
21.96	.....	1,023.50	.....	1,045.46	.....
.....	.....	431.20	.....	431.20	.....
1.59	.....	.....	99.57	.....	97.98
10.55	.....	322.32	.....	332.87	.....
.....	100.48	.....	227.56	.....	2,801.87
4.22	.....	352.50	.....	356.72	.....
5.21	.....	117.27	.....	122.48	.....
15.09	.....	584.85	.....	599.94	.....
26.71	.....	167.46	.....	194.17	.....
.....	38.87	338.77	.....	.....	671.76
36.64	.....	130.05	.....	166.69	.....
9.62	.....	1,185.39	.....	1,195.01	.....
7.82	.....	838.60	.....	846.42	.....
65.16	.....	3,378.25	.....	3,443.41	.....
31.01	.....	927.47	.....	958.48	.....
.....	31.26	194.68	.....	163.42	.....
.....	.....	135.44	.....	135.44	.....
.....	.....	1,923.42	.....	1,923.42	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Etobicoke township	Aug., 1917	3,087.73			3,087.73
Exeter	June, 1916	2,745.90			2,745.90
Fergus	Nov., 1914	1,568.07			1,568.07
Ford City	Nov., 1922	5,018.75			5,018.75
Forest	Mar., 1917	527.94			527.94
Galt	May, 1911	7,333.57			7,333.57
Georgetown	Sept., 1913	1,247.19			1,247.19
Glencoe	Aug., 1920	1,031.97			1,031.97
Goderich	Feb., 1914		8,233.51	8,233.51	
Grantham township	May, 1915		1,069.14	324.80	
Granton	July, 1916	111.37			111.37
Guelph	Dec., 1910	6,361.94			6,361.04
Hagersville	Sept., 1913	979.11			979.11
Hamilton	Feb., 1911		74,025.93	76,493.45	
Harriston	July, 1916	604.01			604.01
Harrow	Nov., 1923				
Hensall	Jan., 1917	690.07			690.07
Hespeler	Feb., 1911	996.39			996.39
Highgate	Dec., 1916	446.96			446.96
Humberstone	Oct., 1924				
Ingersoll	May, 1911	3,623.05			3,623.05
Jarvis	Feb., 1924				
Kingsville	Nov., 1923				
Kitchener	Jan., 1911	906.34			906.34
Lambeth	April, 1915	1,143.89			1,143.89
Leamington	Nov., 1923				
Listowel	June, 1916	384.89			384.89
London	Jan., 1911		2,834.87	2,834.87	
London Railway Commission	Aug., 1914		19,126.55		
Lucan	Feb., 1915	58.47			58.47
Lynden	Nov., 1915	458.13			458.13
Markham	April, 1920	1,078.75			1,078.75
Merlin	Dec., 1922	981.16			981.16
Merritton	Nov., 1920	178.01			178.01
Milton	April, 1913	1,126.50			1,126.50
Milverton	June, 1916		488.66	488.66	
Mimico	May, 1912		338.91	338.91	
Mitchell	Sept., 1911	522.09			522.09
Moorefield	Mar., 1918	45.92			45.92
Mount Brydges	Mar., 1915	472.62			472.62
Newbury	Mar., 1921	440.44			440.44
New Hamburg	Mar., 1911	734.45			734.45
New Toronto	Feb., 1914	2,573.87			2,573.87
Niagara Falls	Dec., 1915		12,417.21	481.98	
Niagara-on-Lake	Aug., 1919	625.11			625 11

SYSTEM—Continued *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
63.89	.....	1,409.93	.....	1,473.82	.....
59.89	.....	3,027.11	.....	3,087.00	.....
37.22	.....	827.55	.....	864.77	.....
100.10	.....	7,469.05	.....	7,569.15	.....
10.41	.....	646.55	.....	656.96	.....
170.38	.....	13,497.53	.....	13,667.91	.....
24.87	.....	1,789.40	.....	1,814.27	.....
21.09	.....	1,066.12	.....	1,087.21	.....
.....	219.08	9,027.98	.....	8,808.90	.....
.....	38.92	.....	1,239.36	.....	2,022.62
2.22	.....	129.50	.....	131.72	.....
126.89	.....	11,654.84	.....	11,781.73	.....
19.52	.....	2,405.40	.....	2,424.92	.....
.....	2,467.52	.....	19,957.90	.....	19,957.90
13.04	.....	1,318.00	.....	1,331.04	.....
.....	.....	1,383.77	.....	1,383.77	.....
15.97	.....	825.52	.....	841.49	.....
22.27	.....	2,992.37	.....	3,014.64	.....
9.16	.....	357.13	.....	366.29	.....
.....	.....	.....	3.15	.....	3.15
81.00	.....	7,636.77	.....	7,717.77	.....
.....	.....	640.09	.....	640.09	.....
.....	.....	2,553.77	.....	2,553.77	.....
19.56	.....	22,320.44	.....	22,340.00	.....
28.31	.....	1,164.72	.....	1,193.03	.....
.....	.....	5,563.73	.....	5,563.73	.....
8.27	.....	1,167.04	.....	1,175.31	.....
.....	57.16	7,934.77	.....	7,877.61	.....
.....	765.06	.....	13,815.24	.....	33,706.85
1.12	.....	112.59	.....	113.71	.....
9.89	.....	954.79	.....	964.68	.....
25.58	.....	1,253.64	.....	1,279.22	.....
26.54	.....	1,002.83	.....	1,029.37	.....
3.55	.....	.....	720.63	.....	717.08
24.32	.....	643.67	.....	667.99	.....
.....	13.23	1,136.46	.....	1,123.23	.....
.....	10.21	2,481.43	.....	2,471.22	.....
11.27	.....	1,152.49	.....	1,163.76	.....
.91	.....	87.74	.....	88.65	.....
12.05	.....	257.58	.....	269.63	.....
9.82	.....	431.98	.....	441.80	.....
15.85	.....	1,506.42	.....	1,522.27	.....
55.56	.....	4,466.80	.....	4,522.36	.....
.....	487.60	.....	6,204.05	.....	18,626.88
13.10	.....	184.95	.....	198.05	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
North York township	Nov., 1923	.....	.....	.....	.....
Norwich	May, 1912	1,817.31	.....	.....	1,817.31
Oil Springs	Feb., 1918	2,609.97	.....	.....	2,609.97
Otterville	Feb., 1916	295.59	.....	.....	295.59
Palmerston	July, 1916	664.53	.....	.....	664.53
Paris	Feb., 1914	1,857.10	.....	.....	1,857.10
Parkhill	May, 1920	809.76	.....	.....	809.76
Petrolia	May, 1916	3,274.51	.....	.....	3,274.51
Plattsville	Dec., 1914	.....	1,279.02	.....	.....
Point Edward	1917	434 26	.....	.....	434 26
Port Colborne	Mar., 1920	.....	265.75	.....	.....
Port Credit	Aug., 1912	.....	409.34	409.34	.....
Port Dalhousie	Nov., 1912	.....	645.94	645.94	.....
Port Dover	Dec., 1921	1,250.29	.....	.....	1,250.29
Port Robinson	Mar., 1913	.....	916.07	.....	.....
Port Stanley	April, 1912	1,254.27	.....	.....	1,254.27
Preston	Jan., 1911	2,235.17	.....	.....	2,235.17
Princeton	Jan., 1915	298.90	.....	.....	298.90
Queenston	Mar., 1921	.....	0.23	0.23	.....
Ridgetown	Dec., 1915	2,075.43	.....	.....	2,075.43
Riverside	Nov., 1922	1,524.68	.....	.....	1,524.68
Rockwood	Sept., 1913	433.08	.....	.....	433.08
Rodney	Feb., 1917	57.62	.....	.....	57.62
St. Catharines	.....	2,836.35	.....	.....	2,836.35
St. Clair Beach	Nov., 1922	1,011.50	.....	.....	1,011.50
St. George	Sept., 1915	1.84	.....	.....	1.84
St. Jacobs	Sept., 1917	68.30	.....	.....	68.30
St. Marys	May, 1911	.....	172.73	172.73	.....
St. Thomas	April, 1911	7,365.94	.....	.....	7,365.94
Sandwich	Feb., 1924	.....	.....	.....	.....
Sarnia	Dec., 1916	10,088.87	.....	.....	10,088.87
Scarboro township	Aug., 1918	2,047.60	.....	.....	2,047.60
Seaforth	Nov., 1911	499.09	.....	.....	499.09
Simcoe	Aug., 1915	2,110.30	.....	.....	2,110.30
Springfield	Aug., 1917	.....	313.24	313.24	.....
Stamford township	Nov., 1916	584.24	.....	.....	584.24
Stouffville	Sept., 1923	152.32	.....	.....	152.32
Stratford	Jan., 1911	2,478.13	.....	.....	2,478.13
Strathroy	Dec., 1914	2,000.13	.....	.....	2,000.13
Streetsville	.....	5,964.89	.....	.....	.....
Sutton	Aug., 1923	.....	183.76	183.76	.....
Tavistock	Nov., 1916	.....	1,425.46	1,425.46	.....
Tecumseh	Nov., 1922	995.09	.....	.....	995.09
Thamesford	Feb., 1914	548.19	.....	.....	548.19
Thamesville	Oct., 1915	530.05	.....	.....	530.05

SYSTEM—Continued *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	.....	.....	469.54	.....	469.54
38.87	.....	1,562.83	.....	1,601.70	.....
58.46	.....	1,085.47	.....	1,143.93	.....
6.25	.....	410.35	.....	416.60	.....
14.35	.....	1,306.46	.....	1,320.81	.....
37.04	.....	2,668.81	.....	2,705.85	.....
18.78	.....	810.30	.....	829.08	.....
73.47	.....	4,717.56	.....	4,791.03	.....
.....	51.16	785.19	.....	.....	544.99
8.66	.....	1,169.08	.....	1,177.74	.....
.....	10.63	.....	304.85	.....	581.23
1.70	.....	610.15	.....	611.85	.....
.....	8.89	30.61	.....	21.72	.....
28.91	.....	1,603.24	.....	1,632.15	.....
.....	36.64	.....	46.80	.....	999.51
29.75	.....	1,248.75	.....	1,278.50	.....
48.25	.....	3,353.24	.....	3,401.49	.....
6.33	.....	432.71	.....	439.04	.....
.....	.....	.....	305.03	.....	305.03
44.27	.....	1,478.06	.....	1,522.33	.....
30.41	.....	2,444.12	.....	2,474.53	.....
8.93	.....	343.53	.....	352.46	.....
1.20	.....	274.37	.....	275.57	.....
56.57	.....	30.70	.....	87.27	.....
22.17	.....	940.91	.....	963.08	.....
.03	.....	.....	78.01	.....	77.98
1.57	.....	.....	43.13	.....	41.56
.....	4.12	1,491.75	.....	1,487.63	.....
142.88	.....	13,016.08	.....	13,158.96	.....
.....	.....	878.15	.....	878.15	.....
201.22	.....	17,428.94	.....	17,630.16	.....
47.57	.....	4,249.84	.....	4,297.41	.....
9.95	.....	2,372.14	.....	2,382.09	.....
44.14	.....	2,229.68	.....	2,273.82	.....
.....	12.49	.....	208.13	.....	220.62
11.61	.....	.....	611.90	.....	600.29
3.03	.....	1,951.92	.....	1,954.95	.....
48.82	.....	7,098.55	.....	7,147.37	.....
40.44	.....	2,706.20	.....	2,746.64	.....
238.60	.....	2,192.55	.....	8,396.04	.....
.....	4.06	771.46	.....	767.40	.....
.....	48.11	.....	78.56	.....	126.67
20.23	.....	1,076.82	.....	1,097.05	.....
12.15	.....	775.74	.....	787.89	.....
12.02	.....	1,079.71	.....	1,091.73	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality or Rural power district	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Thedford	May, 1922	1,656.32			1,656.32
Thorndale	Mar., 1914		1,338.38		
Thorold	Jan., 1921	2,592.99			3,488.12
Tilbury	April, 1915	2,504.15			2,504.15
Tillsonburg	Aug., 1911	3,890.08			3,890.08
Toronto	June, 1911	6,332.08			6,332.08
Toronto township	Aug., 1913		29.00	29.00	
Walkerville	Nov., 1914	19,237.79			19,237.79
Wallaceburg	Feb., 1915	399.75			399.75
Wardsville	June, 1921	83.36			83.36
Waterdown	Nov., 1911		194.84	194.84	
Waterford	April, 1915	650.60			650.60
Waterloo	Dec., 1910	3,706.01			3,706.01
Watford	Sept., 1917	1,951.77			1,951.77
Welland	Sept., 1917		5,108.35		
Wellesley	Nov., 1916	68.74			68.74
West Lorne	Jan., 1917	435.79			435.79
Weston	Jan., 1911	5,966.98			5,966.98
Wheatley	Feb., 1924				
Windsor	Oct., 1914	54,448.46			54,448.46
Woodbridge	Dec., 1914	1,246.20			1,246.20
Woodstock	Jan., 1911	5,526.35			5,526.35
Wyoming	Nov., 1916		588.64	588.64	
Zurich	Sept., 1917	426.35			426.35
Rural Power Districts—					
Amherstburg	Nov., 1923				
Aylmer	Nov., 1920		1,807.67		30.05
Baden	Sept., 1913		585.15		77.20
Barton	Nov., 1922				
Beamsville	Jan., 1923	1,734.71			439.82
Belle River	Dec., 1922	1,965.95			116.20
Blenheim	July, 1924				
Bolton	July, 1924				
Bond Lake	Mar., 1924				
Bothwell	Dec., 1923				
Brampton	Nov., 1923				
Brant	Oct., 1914	2,160.37			149.68
Chatham	May, 1922	3,012.03			273.70
Chippawa	July, 1922		701.63		214.86
Delaware	Oct., 1922	1,090.53			130.58
Dorchester	Dec., 1921	7,051.32			383.99
Drumbo	Aug., 1922	1,179.80			82.76
Dundas	Jan., 1921	985.65			184.92
Exeter	Nov., 1922	1,826.35			142.39
Galt	Oct., 1922	335.81			38.23

SYSTEM—Continued *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
40.46	.....	952.29	.....	992.75	.....
.....	53.53	347.85	.....	.....	1,044.06
32.04	.....	.....	468.82	.....	1,331.91
52.71	.....	3,020.41	.....	3,073.12	.....
98.47	.....	3,778.51	.....	3,876.98	.....
218.26	.....	.....	162,572.87	.....	162,354.61
.....	0.59	.....	296.36	.....	296.95
383.70	.....	19,677.80	.....	20,061.50	.....
7.97	.....	3,757.04	.....	3,765.01	.....
1.81	.....	250.45	.....	252.26	.....
.....	4.29	979.65	.....	975.36	.....
14.34	.....	427.84	.....	442.18	.....
72.41	.....	5,870.96	.....	5,943.37	.....
53.39	.....	889.97	.....	943.36	.....
.....	204.33	.....	75.02	.....	5,387.70
1.37	.....	247.48	.....	248.85	.....
9.26	.....	916.96	.....	926.22	.....
119.01	.....	4,893.92	.....	5,012.93	.....
.....	.....	889.76	.....	889.76	.....
1,062.12	.....	55,535.93	.....	56,598.05	.....
25.82	.....	1,040.04	.....	1,065.86	.....
123.55	.....	9,126.88	.....	9,250.43	.....
.....	22.32	480.84	.....	458.52	.....
8.68	.....	205.56	.....	214.24	.....
.....	.....	1,376.59	.....	1,376.59	.....
.....	73.51	107.56	.....	.....	1,803.67
.....	26.49	365.69	.....	.....	323 15
.....	.....	131.13	.....	131.13	.....
51.80	.....	5,790.74	.....	7,137.43	.....
73.99	.....	4,036.04	.....	5,959.78	.....
.....	.....	129.15	.....	129.15	.....
.....	.....	53.42	.....	53 42	.....
.....	.....	1,982.82	.....	1,982.82	.....
.....	.....	30.96	.....	30.96	.....
.....	.....	125.23	.....	125.23	.....
80.43	.....	3,780.15	.....	5,871.27	.....
109.53	.....	3,579.35	.....	6,427.21	.....
.....	36.62	.....	264.53	.....	1,217.64
38.40	.....	2,752.03	.....	3,750.38	.....
266.69	.....	4,953.04	.....	11,887.06	.....
43.88	.....	1,755.45	.....	2,896.37	.....
25.32	.....	2,926.94	.....	2,752.99	.....
67.36	.....	2,344.57	.....	4,095.89	.....
11.90	.....	442.84	.....	752.32	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
Harrow	Nov., 1923				
Homer	Nov., 1922	411.02			24.49
Ingersoll	Oct., 1914	274.86			6.43
Jordan	May, 1922	391.15			146.69
Keswick	Mar., 1924				
Kingsville	Nov., 1923				
Lansing	Mar., 1924				
Leamington	Nov., 1923				
London	Nov., 1922	619.12			44.24
Lynden	Feb., 1922	631.93			87.22
Markham	Dec., 1922	2,005.36			124.67
Mount Joy	Jan., 1924				
Niagara	Jan., 1922	2,212.05			106.38
Newmarket	Mar., 1924				
Petrolia	Aug., 1923	44.66			3.55
Preston	April, 1922	7,234.10			335.13
Ridgetown	Mar., 1922	5,294.48			281.17
St. Jacobs	Nov., 1922	600.49			46.99
St. Thomas	Aug., 1923		88.18		34.53
Saltfleet	Feb., 1922	4,426.90			999.49
Sandwich	July, 1922	1,583.56			66.46
Sarnia	June, 1923	588.65			32.03
Scarboro	Dec., 1923				
Simcoe	Nov., 1922	246.18			6.41
Stamford	Mar., 1922	1,669.68			79.07
Stratford	July, 1924				
Streetsville	Nov., 1922	141.66			16.21
Tavistock	April, 1923	559.49			38.29
Tilbury	Dec., 1923				
Tillsonburg	Dec., 1923				
Wallaceburg	Jan., 1923	2,462.29			29.99
Waterdown	Oct., 1922	337.99			35.22
Waterford	Nov., 1923				
Welland	April, 1922	777.39			12.78
Woodbridge	Jan., 1923	1.09			21.81
Woodstock	Feb., 1913	7,518.53			598.63
Totals		324,322.63	142,369.79	96,614.24	264,756.74

SYSTEM—Continued *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
			36.63		36.63
15.46		262.02		664.01	
10.74			55.07	224.10	
9.78		1,017.65		1,271.89	
		177.64		177.64	
		2,193.37		2,193.37	
		2,369.07		2,369.07	
		4,757.04		4,757.04	
23.00		6,287.36		6,885.24	
28.50		536.30		1,109.51	
75.23		2,101.14		4,057.06	
		28.97		28.97	
84.23		1,258.92		3,448.82	
			286.84		286.84
1.64			66.12		23.37
275.96		5,450.47		12,625.40	
200.53		3,256.82		8,470.66	
22.14		1,762.96		2,338.60	
	4.91	7,110.90		6,983.28	
137.10		3,674.45		7,238.96	
60.68		5,746.45		7,324.23	
22.26		2,579.00		3,157.88	
		597.49		597.49	
9.59		261.41		510.77	
63.62		2,041.50		3,695.73	
		586.28		586.28	
5.02		123.98		254.45	
20.85		796.83		1,338.88	
		89.49		89.49	
		378.45		378.45	
97.29		4,577.00		7,106.59	
12.11		176.78		491.66	
			85.57		85.57
30.58			1,626.04		830.85
	0.83		144.94		166.49
276.80		7,998.58		15,195.28	
7,904.52	4,962.56	488,398.82	210,392.22	553,224.59	258,465.69

NIAGARA SYSTEM

Including the Queenston-Chippawa development and the Plants and Works formerly owned by the Ontario Power Company of Niagara Falls and the Toronto Power Company, Limited.

Reserve for Renewals Account, October 31, 1924

Total provision to October 31, 1923, for renewal of transmission lines and stations		$3,056,310.98	
Deduct: Expenditures to October 31, 1923		271,868.52	$2,784,442.46
Total provision to October 31, 1923, for renewal of plant and equipment of Ontario Power Company (and its subsidiary)	$1,688,752.60		
Less portion thereof accrued to August 1, 1917 (date of purchase of the company by the Commission) which has now been employed to write off discount on bonds, etc.	880,833.35	$807,919.25	
Deduct: Expenditures to October 31, 1923		156,319.99	651,599.26
Total provision to October 31, 1923, for renewal of plant and equipment of Toronto Power Company and its subsidiaries			567,401.47
Total provision to October 31, 1923, for renewal of plant and equipment of Essex County system		$60,659.29	
Deduct: Expenditures to October 31, 1923		3,931.47	56,727.82
Total provision to October 31, 1923, for renewal of plant and equipment of Thorold system		$5,083.05	
Deduct: Expenditures to October 31, 1923		9.24	5,073.81
Additional renewals for rural power districts added in year ending October 31, 1923			5,659.95
			$4,070,904.77
Added during the year:			
Amounts charged to municipalities as part of the cost of power delivered to them		$605,484.63	
Provision against equipment employed in respect of contracts with sundry customers		258,572.82	
By charges included in cost of power to Hydro electric railways		8,674.60	
Renewals reserve provided on second-hand equipment purchased		3,359.17	
Interest at 4% per annum on monthly balances to the credit of the account		168,176.06	1,044,267.28
			$5,115,172.05
Deduct:			
Provision for renewals allowed on plant sold to certain municipalities in the Essex County system		$17,153.84	
Expenditures during the year ending October 31, 1924		50,070.23	67,224.07
			$5,047,947.98

NIAGARA SYSTEM

Including the Queenston-Chippawa development and the Plants and Works formerly owned by the Ontario Power Company of Niagara Falls and the Toronto Power Company, Limited

Reserve for Contingencies Account, October 31, 1924

Balance brought forward October 31, 1923		$137,611.46
Reserve for contingencies provided by Toronto Power Company, to October 31, 1923		447,323.92
		$584,935.38
Added during the year:		
Amounts charged to municipalities as part of the cost of power delivered to them	$744,758.26	
By charges included in cost of power to Hydro electric railways	8,100.67	
By contingencies provided by Essex County system	20,592.90	
Interest at 4% per annum on balance brought forward ($137,611.46) from 1923	5,504.46	
		778,956.29
		$1,363,891.67
Expenditures to cover contingencies met with during the year ending October 31, 1924	$60,057.44	
Applied in reduction of the book value of the transmission lines taken over with the Essex County system in 1918, now forming part of Niagara system	20,592.90	
Cost to the Commission (including sinking fund of $575,177.56 for repayment of the investment in works) of the power delivered to customers under flat rate contracts in excess of the revenue received from them	639,541.44	
		720,191.78
		$643,699.89

NIAGARA SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
Acton	1 year ending Oct. 31, 1924	1,043.59	8,282.31
Agincourt	2 " " " "	94.66	134.12
Ailsa Craig	4 " " " "	2,493.87	3,660.49
Alvinston	3 " " " "	1,886.56	555.68
Ancaster township	1 " " " "	325.49	1,057.85
Aylmer	5 " " " "	5,596.96	3,468.91
Ayr	3 " " " "	716.93	2,421.93
Baden	1 " " " "	508.94	7,046.89
Barton township	1 " " " "	415.35	1,124.80
Beachville	1 " " " "	763.95	8,769.51
Belle River	1 " " " "	205.00	333.78
Blenheim	4 " " " "	2,752.58	5,620.13
Blyth	1 " " " "	138.70	56.65
Bolton	4 " " " "	2,778.02	4,635.05
Bothwell	4 " " " "	2,323.25	4,979.54
Brampton			28,863.92
Brantford	3 " " " "	19,566.85	99,285.07
Brantford township			811.39
Brigden	5 " " " "	2,595.94	1,849.22
Brussels	1 " " " "	180.65	85.97
Burford	4 " " " "	1,376.05	2,016.16
Burgessville	5 " " " "	630.94	723.86
Caledonia	1 " " " "	223.96	2,564.72
Chatham	4 " " " "	19,516.18	54,183.48
Chippawa			1,348.25
Clifford	1 " " " "	132.57	57.05
Clinton	3 " " " "	2,845.41	7,007.10
Comber	4 " " " "	2,066.12	3,106.42
Courtright	1 " " " "	222.90	74.49
Dashwood	5 " " " "	2,114.37	1,259.41
Delaware	4 " " " "	295.54	507.97
Dereham township	5 " " " "	1,013.39	967.76
Dorchester	3 " " " "	280.53	902.73
Drayton	5 " " " "	2,888.93	1,122.60
Dresden	4 " " " "	1,892.16	4,718.15
Drumbo	3 " " " "	287.39	889.80
Dublin	5 " " " "	1,099.82	615.84
Dundas			28.131,12
Dunnville	5 " " " "	8,460.57	4,706.86
Dutton	4 " " " "	1,340.70	3,144.07
Elmira	2 " " " "	2,324.82	10,735.00
Elora	3 " " " "	2,264.36	7,196.29
Embro	3 " " " "	989.58	2,459.91
Erieau	1 " " " "	25.11	16.64
Essex			4,565.20

NIAGARA SYSTEM—Continued

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
Etobicoke township	5 years ending Oct. 31, 1924	4,480.12	8,857.69
Exeter	5 " " " "	4,499.67	7,385.48
Fergus	3 " " " "	2,219.54	6,289.10
Ford City	.....	.....	13,905.66
Forest	5 " " " "	4,642.83	3,393.93
Galt	.....	.....	93,417.86
Georgetown	2 " " " "	3,777.74	18,197.34
Glencoe	5 " " " "	2,759.13	965.18
Goderich	3 " " " "	8,648.87	20,715.15
Grantham township	.....	.....	6,321.41
Granton	5 " " " "	1,229.64	1,356.96
Guelph	.....	.....	105,512.54
Hagersville	2 " " " "	2,536.75	11,566.28
Hamilton	.....	.....	410,983.63
Harriston	5 " " " "	4,847.41	5,141.82
Harrow	.....	.....	1,709.23
Hensall	5 " " " "	2,125.52	2,773.47
Hespeler	.....	.....	13,461.11
Highgate	5 " " " "	1,359.42	1,781.01
Humberstone	.....	.....	45.03
Ingersoll	.....	.....	32,253.81
Jarvis	1 " " " "	238.30	241.28
Kingsville	.....	.....	5,335.53
Kitchener	.....	.....	183,684.19
Lambeth	4 " " " "	782.07	1,168.63
Leamington	.....	.....	6,272.51
Listowel	5 " " " "	6,818.37	9,018.60
London	.....	.....	364,011.87
London Railway Commission	3 " " " "	7,339.18	30,375.00
Lucan	4 " " " "	1,804.96	4,170.20
Lynden	4 " " " "	1,716.23	3,460.16
Markham	5 " " " "	1,784.00	1,060.01
Merlin	2 " " " "	848.72	614.36
Merritton	.....	.....	4,453.85
Milton	2 " " " "	4,083.67	20,653.46
Milverton	5 " " " "	4,539.37	7,347.27
Mimico	1 " " " "	1,541.00	13,952.86
Mitchell	.....	.....	8,857.69
Moorefield	5 " " " "	1,533.95	614.78
Mount Brydges	4 " " " "	607.98	1,337.21
Newbury	4 " " " "	563.66	286.43
New Hamburg	.....	.....	9,819.23
New Toronto	3 " " " "	10,947.97	56,060.42
Niagara Falls	4 " " " "	2,197.43	63,734.29
Niagara-on-the-Lake	5 " " " "	810.16	2,639.49

NIAGARA SYSTEM—Continued

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
North York township	1 year ending Oct. 31, 1924	62.50	974.86
Norwich	1 " " " "	782.45	8,784.51
Oil Springs	5 " " " "	3,585.52	3,168.01
Otterville	5 " " " "	846.48	899.71
Palmerston	5 " " " "	3,552.48	4,658.94
Paris	3 " " " "	3,412.27	16,296.69
Parkhill	5 " " " "	2,788.53	842.70
Petrolia	5 " " " "	8,761.74	14,357.56
Plattsville	3 " " " "	784.31	2,748.30
Point Edward	5 " " " "	2,220.48	3,140.73
Port Colborne			7,033.25
Port Credit	1 " " " "	387.41	3,653.73
Port Dalhousie			3,281.56
Port Dover	3 " " " "	1,164.06	864.78
Port Robinson			4,017.80
Port Stanley	1 " " " "	709.14	8,276.33
Preston			46,669.27
Princeton	3 " " " "	517.89	1,180.44
Queenston	4 " " " "	109.11	519.44
Ridgetown	4 " " " "	2,937.08	6,136.80
Riverside			3,131.63
Rockwood	2 " " " "	528.75	2,262.97
Rodney	5 " " " "	1,604.18	1,416.81
St. Catharines			54,268.06
St. Clair Beach			476.11
St. George	4 " " " "	944.96	2,141.06
St. Jacobs	5 " " " "	1,001.86	1,099.12
St. Marys			25,486.45
St. Thomas			81,162.74
Sandwich	1 " " " "	1,846.23	3,816.99
Sarnia	5 " " " "	41,349.26	66,450.73
Scarboro township	5 " " " "	1,287.96	4,808.45
Seaforth			18,412.71
Simcoe	4 " " " "	2,928.37	6,816.33
Springfield	5 " " " "	1,160.10	584.31
Stamford township	5 " " " "	750.12	7,856.04
Stouffville	2 " " " "	420.21	412.13
Stratford			91,389.52
Strathroy	3 " " " "	4,432.68	13,568.44
Streetsville			8,474.53
Sutton	2 " " " "	241.20	289.52
Tavistock	5 " " " "	3,854.76	5,546.07
Tecumseh			1,233.51
Thamesford	3 " " " "	1,113.71	3,286.08
Thamesville	4 " " " "	1,183.87	2,471.62

NIAGARA SYSTEM—Continued

Sinking Fund to year ending October 31, 1924

Municipality or Rural power district	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
Thedford	3 years ending Oct. 31, 1924	1,161.92	317.78
Thorndale	3 " " " "	791.46	2,868.52
Thorold			5,527.28
Tilbury	4 " " " "	2,504.56	5,022.29
Tillsonburg			18,442.68
Toronto			2,206,948.50
Toronto township	2 " " " "	1,522.77	6,988.17
Walkerville	3 " " " "	29,182.51	117,461.26
Wallaceburg	4 " " " "	8,829.25	21,681.79
Wardsville	4 " " " "	393.92	131.55
Waterdown			4,865.41
Waterford	4 " " " "	1,417.14	3,808.06
Waterloo			38,099.94
Watford	5 " " " "	3,594.29	1,942.02
Welland	5 " " " "	12,812.14	36,381.59
Wellesley	5 " " " "	2,563.89	3,376.79
West Lorne	5 " " " "	2,620.33	3,129.68
Weston			35,081.35
Wheatley			457.32
Windsor	3 " " " "	62,282.12	171,875.62
Woodbridge	3 " " " "	1,593.80	5,060.55
Woodstock			53,100.49
Wyoming	5 " " " "	1,126.61	1,390.33
Zurich	5 " " " "	2,993.70	1,503.89
Rural Power Districts—			
Amherstburg			2,823.79
Aylmer			809.33
Baden			807.66
Barton			72.70
Beamsville			2,965.42
Belle River			1,471.08
Blenheim			28.88
Bolton			348.58
Bond Lake			647.58
Bothwell			55.34
Brampton			40.85
Brant			998.13
Chatham			1,842.32
Chippawa			1,222.12
Delaware			1,006.64
Dorchester			2,989.97
Drumbo			675.68
Dundas			1,212.60
Exeter			1,038.50
Galt			297.95

NIAGARA SYSTEM—Continued
Sinking Fund to year ending October 31, 1924

Municipality or Rural power district	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred.		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
Rural Power Districts—Continued		$ c.	$ c.
Harrow			75.24
Homer			195.45
Ingersoll			194.34
Jordan			604.89
Keswick			581.01
Kingsville			2,475.45
Lansing			348.59
Leamington			3,530.84
London			1,979.74
Lynden			773.94
Markham			585.04
Mount Joy			39.21
Niagara			992.86
Newmarket			39.91
Petrolia			123.61
Preston			3,213.76
Ridgetown			1,499.52
St. Jacobs			672.86
St. Thomas			1,620.81
Saltfleet			6,351.86
Sandwich			5,684.84
Sarnia			590.14
Scarboro			83.68
Simcoe			261.78
Stamford			740.58
Stratford			1,229.14
Streetsville			43.75
Tavistock			433.19
Tilbury			11.49
Tillsonburg			231.28
Wallaceburg			909.91
Waterdown			253.43
Waterford			603.20
Welland			2,371.85
Woodbridge			562.60
Woodstock			3,586.63
Local Systems—			
Amherstburg			8,050.41
Cottam			1,087.58
Hydro Radial Railways—			
Toronto & York Radial Railway			28,353.85
Sandwich, Windsor & Amherstburg Railway			1,817.22
Totals		420,622.43	5,285,257.90

NIAGARA SYSTEM

Sinking Fund Reserve, October 31, 1924

Total provision for sinking fund to October 31, 1923			$3,184,758.95
Add:			
Provision for sinking fund on Essex and Thorold systems (now combined with Niagara system) as at October 31, 1923:			
Essex system	$36,879.19		
Less amounts transferred to municipalities on plant sold to them	11,768.79		
		$25,110.40	
Thorold system		96,591.80	
			121,702.20
Provision for sinking fund on rural lines to October 31, 1923		$41,812.64	
Less amounts deducted in respect to sale of lines to municipalities		1,894.67	
			39,917.97
Proportionate share of administration and service building sinking fund to October 31, 1923			135,532.40
			$3,481,911.52
Provided in the year ending October 31, 1924, in respect of:			
Advances by the Province for construction of transmission lines and stations		$437,901.43	
Advances by the Province for construction of third pipe line to Ontario Power Co. plant		63,158.94	
Advances by the Province for construction of Queenston-Chippawa development		724,287.69	
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Co., the Toronto Power Co. and Essex system		485,429.37	
Amount credited in respect to purchase of transmission lines		2,291.06	
Interest at 4% on amounts standing at the credit of the reserve accounts		133,370.55	
			$1,846,439.04
			$5,328,350.56

NIAGARA RURAL LINES

Statement showing the Interest and Sinking Fund charged by the Commission to the Municipalities which operate the respective Rural Lines for the year ending October 31, 1924

Operated by	Capital cost	Interest	Sinking fund	Total interest and sinking fund charged
	$ c.	$ c.	$ c.	$ c.
Ancaster township	5,159.03	257.95	92.86	350.81
Bothwell	6,571.84	355.90	547.44	903.34
Brampton	588.87	29.44	10.60	40.04
Dereham township	29,243.50	1,483.42	526.39	2,009.81
Elora	777.82	38.89	14.00	52.89
Etobicoke	54,608.68	2,984.09	982.96	3,967.05
Georgetown	8,889.59	444.48	160.01	604.49
Goderich	2,313.36	115.67	41.64	157.31
Louth township	2,771.19	138.56	49.88	188.44
Lucan	333.26	16.66	6.00	22.66
Milton	5,071.90	267.79	91.30	359.09
Norwich	35,159.54	1,773.59	632.94	2,406.53
Scarborough township	4,521.25	271.27	81.38	352.65
Toronto	1,203.01	52.23	18.80	71.03
Vaughan township	22,453.53	1,264.49	405.66	1,670.15
Waterdown	17,171.05	850.44	297.85	1,148.29
Waterloo	5,062.60	230.60	91.12	321.72
Welland	19,617.60	980.88	353.12	1,334.00
Weston	5,234.46	209.38	94.22	303.60
Totals	226,752.08	11,765.73	4,498.17	16,263.90
Non-operating	6,584.04			
	233,336.12			

NIAGARA RURAL LINES

Statement showing the total Sinking Fund requirements of each line—all of which have been paid—and the total of such Sinking Fund payments with interest allowed thereon to October 31, 1924

Lines operated by	Sinking fund requirements which have been paid		Interest at 4% per annum allowed on sinking fund payments	Total sinking fund payments and accumulated interest to Oct. 31, 1924
	Period covered	Amount		
		$ c.	$ c.	$ c.
Ancaster township...	11 years ending Oct. 31, 1924	1,006.89	238.49	1,245.38
Bothwell	9 " " " 1924	3,944.81	530.77	4,475.58
Brampton	7 " " " 1924	75.96	10.51	86.47
Dereham township...	7 " " " 1924	3,560.03	441.64	4,001.67
Elora	11 " " " 1924	139.91	28.05	167.96
Etobicoke	9 " " " 1924	8,048.28	1,331.80	9,380.08
Georgetown	11 " " " 1924	1,585.01	319.73	1,904.74
Goderich	11 " " " 1924	433.18	90.67	523.85
Louth township	6 " " " 1924	357.47	46.88	404.35
Lucan	5 " " " 1924	30.00	2.50	32.50
Milton	11 " " " 1924	266.92	31.29	298.21
Norwich	12 " " " 1924	5,663.48	1,036.04	6,699.52
Scarborough twp....	7 " " " 1924	909.19	144.08	1,053.27
Toronto	9 " " " 1924	80.95	9.79	90.74
Vaughan township...	10 " " " 1924	2,650.83	321.54	2,972.37
Waterdown	11 " " " 1924	2,328.63	445.08	2,773.71
Waterloo	11 " " " 1924	786.70	136.00	922.70
Welland	12 " " " 1924	3,967.12	864.22	4,831.34
Weston	11 " " " 1924	1,008.19	220.03	1,228.22
Totals		36,843.55	6,249.11	43,092.66

GEORGIAN BAY

Operating Account for Year

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased		$19,559.70
Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of this system		179,880.42
Interest on capital investment		210,750.13
Provisions for renewal of generating plant, lines and stations, etc		54,796.32
Provisions for contingencies:		
By charges against municipalities	$14,141.40	
By appropriating the net profit on power sold to private companies	3,606.60	
		17,748.00
Provisions for Sinking Fund:		
By charges against municipalities	$49,260.26	
By charges against contracts with private companies which purchased power	5,900.95	
		55,161.21
		$537,895.78

GEORGIAN BAY SYSTEM—

Operating Account for year ending October 31, 1924, included in above

Power purchased from the Commission	$4,821.19
Costs of operating and maintaining transmission lines and equipment	2,430.34
Interest on capital investment	2,824.30
Provision for renewals of lines and equipment	1,610.08
Provision for sinking fund for repayment of cash advances	999.09
	$12,685.00

* Consult also page 21.

SYSTEM*

Ending October 31, 1924

REVENUE FOR PERIOD

Collected from municipalities		$568,329.36
Power sold to private companies		46,880.98
		$615,210.34
Deduct:		
Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period	$80,476.55	
Less:		
Amounts due by certain municipalities, being the difference between sums paid and the cost of power supplied to them in the period	3,161.99	77,314.56
		$537,895.78

RURAL POWER DISTRICTS

account of Georgian Bay System. For detail report see pages 190 and 191

Revenue collected from rural power districts		$15,787.78
Add:		
Deficit on operation of certain rural power districts	$306.92	
Deduct:		
Surplus on operation of certain rural power districts	3,409.70	3,102.78
		$12,685.00

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and Niagara System	Share of operating	
	To June 1, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alliston	55.00	60.00	69,643.11	121.9	151.97	2,062.68	3,544.67
Arthur	85.00	98.00	64,403.38	109.4	136.39	2,997.37	3,428.33
Barrie	29.00	28.00	266,974.41	1,294.3	1,613.59	12,794.79	13,008.06
Beaverton	50.00	50.00	38,397.62	155.7	194.11	2,031.74	1,638.98
Beeton	75.00	75.00	65,365.24	97.7	121.80	2,127.07	3,314.70
Bradford	75.00	84.00	64,996.23	91.5	114.07	2,074.98	3,218.13
Brechin	85.00	85.00	15,998.20	46.2	57.60	713.02	655.90
Cannington	55.00	55.00	27,128.67	97.4	121.43	1,598.77	1,138.84
Chatsworth	60.00	50.00	9,977.96	35.3	44.01	559.25	505.57
Chesley	50.00	50.00	92,530.63	315.6	393.45	3,842.90	4,714.41
Coldwater	40.00	35.00	22,992.77	81.6	101.73	1,037.13	1,091.90
Collingwood	40.00	33.00	338,664.83	1,350.7	1,683.89	17,552.49	15,431.72
Cookstown	60.00	58.00	16,462.94	35.6	44.38	752.95	831.13
Creemore	60.00	55.00	28,049.59	64.9	80.91	1,303.12	1,342.43
Dundalk	45.00	43.00	25,134.52	114.4	142.62	1,222.19	1,268.33
Durham	40.00	38.00	70,681.97	346.4	431.85	4,023.36	3,573.01
Elmvale	35.00	31.00	39,279.09	187.0	233.13	2,356.09	1,870.53
Elmwood	55.00	50.00	12,052.07	36.4	45.38	805.82	650.37
Flesherton	55.00	55.00	15,144.90	50.9	63.45	1,132.06	772.12
Grand Valley	60.00	72.00	33,192.53	75.4	94.00	1,698.11	1,767.87
Hanover	35.00	36.00	258,031.01	1,157.7	1,443.29	10,759.36	13,322.22
Holstein	90.00	90.00	11,869.24	12.5	15.58	370.54	641.76
Kincardine	70.00	70.00	125,101.00	221.9	276.64	4,167.02	6,864.53
Kirkfield	55.00	55.00	12,137.30	26.8	33.41	363.74	589.76
Lucknow	65.00	75.00	52,800.94	79.9	99.61	2,419.74	2,819.69
Markdale	40.00	39.00	21,306.99	96.5	120.30	1,348.78	1,096.98
Meaford	60.00	60.00	62,832.70	139.6	174.04	1,752.41	2,830.44
Midland	30.00	26.00	616,396.35	3,835.3	4,220.40	28,060.50	30,381.92
Mount Forest	60.00	58.00	71,625.28	221.1	275.64	2,875.24	3,668.28
Neustadt	45.00	45.00	57,368.29	162.5	202.59	1,923.46	3,107.34
Orangeville	60.00	60.00	89,541.04	242.6	302.45	4,043.52	4,750.13
Owen Sound	35.00	35.00	350,794.55	1,718.2	2,142.05	13,596.44	17,619.17
Paisley	80.00	80.00	31,302.16	65.6	81.78	1,403.22	1,682.10
Penetanguishene	30.00	27.00	99,082.00	420.9	524.73	3,812.85	3,805.73
Port McNicoll	30.00	28.00	11,839.58	56.6	70.56	596.05	556.51
Port Perry	90.00	70.00	45,815.80	90.8	113.20	1,929.86	2,302.11
Priceville	65.00	65.00	6,081.82	10.6	13.21	386.47	333.72
Ripley	70.00	80.00	33,000.04	39.7	49.49	1,280.48	1,777.84
Shelburne	50.00	45.00	54,730.38	196.3	244.72	2,450.80	2,644.72
Stayner	40.00	38.00	31,888.16	123.9	154.47	1,732.10	1,492.10
Sunderland	75.00	75.00	23,507.41	55.7	69.44	991.13	1,007.88
Tara	90.00	93.00	40,348.49	46.2	57.60	992.98	2,227.29
Teeswater	50.00	50.00	57,941.92	140.4	175.03	2,137.82	3,155.95
Thornton	85.00	85.00	11,963.20	15.7	19.57	452.04	610.82
Tottenham	90.00	96.00	39,973.34	45.4	56.60	1,075.21	2,040.62

SYSTEM *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount —and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-1924
Renewals	Contingencies	Sinking fund			Credited	Charged	
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
924.20	121.90	507.07	7,312.49	6,960.02	.....	352.47	1917-18
805.81	109.40	1,172.24	8,649.54	9,458.58	809.04	.....	1922-23
3,434.66	1,294.30	3,190.44	35,335.84	37,006.61	1,670.77	.....	1921-22
516.92	155.70	669.63	5,207.08	7,785.00	2,577.92	.....	1923-24
865.30	97.70	373.04	6,899.61	7,328.10	428.49	.....	1917-18
837.89	91.50	75.11	6,411.68	7,192.48	780.80	.....	1917-18
219.35	46.20	277.85	1,969.92	3,764.04	1,794.12	.....	1923-24
371.50	97.40	476.66	3,804.60	5,355.58	1,550.98	.....	1923-24
124.17	35.30	175.16	1,443.46	1,864.66	421.20	.....	1923-24
1,125.63	315.60	1,750.92	12,142.91	15,781.29	3,638.38	.....	1922-23
299.71	81.60	365.39	2,977.46	2,887.91	.....	89.55	1921-22
4,395.04	1,350.70	4,945.55	45,359.39	50,190.03	4,830.64	.....	1921-22
217.50	35.60	237.45	2,119.01	2,105.20	.....	13.81	1917-18
370.17	64.90	442.37	3,603.90	3,541.10	.....	62.80	1920-21
315.14	114.40	442.00	3,504.68	5,062.51	1,557.83	.....	1923-24
886.35	346.40	1,240.61	10,501.58	13,436.25	2,934.67	.....	1923-24
505.78	187.00	548.84	5,701.37	6,240.62	539.25	.....	1921-22
150.96	36.40	379.03	2,067.96	1,869.68	.....	198.28	1920-21
188.43	50.90	266.09	2,473.05	2,797.19	324.14	.....	1923-24
415.42	75.40	661.10	4,711.90	4,629.70	.....	82.20	1922-23
3,235.08	1,157.70	6,138.94	36,056.59	41,193.67	5,137.08	.....	1922-23
148.47	12.50	215.45	1,404.30	1,120.50	.....	283.80	1922-23
1,565.62	221.90	.....	13,095.71	15,532.27	2,436.56	.....	.....
172.62	26.80	.....	1,186.33	1,476.25	289.92	.....	.....
641.82	79.90	.....	6,060.76	5,457.37	.....	603.39	.....
265.83	96.50	411.61	3,340.00	3,818.91	478.91	.....	1922-23
651.40	139.60	.....	5,547.89	8,377.80	2,829.91	.....	.....
7,869.04	3,385.30	6,975.64	80,892.80	87,559.54	6,666.74	.....	1921-22
892.38	221.10	1,262.23	9,194.87	13,128.74	3,933.87	.....	1923-24
718.46	162.50	1,070.88	7,185.23	7,175.22	.....	10.01	1920-21
1,119.00	242.60	1,685.66	12,143.36	14,554.75	2,411.39	.....	1922-23
4,399.31	1,718.20	6,157.79	45,632.96	60,137.67	14,504.71	.....	1923-24
384.83	65.60	.....	3,617.53	5,248.63	1,631.10	.....	.....
1,282.48	420.90	1,745.13	11,591.82	12,162.50	570.68	.....	1923-24
147.46	56.60	149.32	1,576.50	1,651.17	74.67	.....	1920-21
655.54	90.80	.....	5,091.51	7,400.39	2,308.88	.....	.....
76.11	10.60	.....	820.11	692.74	.....	127.37	.....
403.46	39.70	.....	3,550.97	2,966.94	.....	584.03	.....
636.05	196.30	938.33	7,110.92	9,414.51	2,303.59	.....	1922-23
414.26	123.90	548.85	4,465.68	4,876.26	410.58	.....	1921-22
332.34	55.70	416.46	2,872.95	3,971.85	1,098.90	.....	1923-24
504.75	46.20	743.87	4,572.69	4,216.14	.....	356.55	1920-21
725.45	140.40	.....	6,334.65	7,021.88	687.23	.....	.....
159.45	15.70	169.81	1,427.39	1,336.58	.....	90.81	1918-19
533.60	45.40	63.82	3,815.25	4,201.60	386.35	.....	1917-18

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and Niagara System	Share of operating	
	To June 1, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Uxbridge	90.00	73.00	49,488.98	92.7	115.57	1,656.51	2,485.73
Victoria Harbor	40.00	40.00	14,867.88	54.3	67.69	819.09	713.41
Waubaushene	40.00	40.00	8,664.81	36.2	45.13	666.39	418.75
Wingham	55.00	59.00	167,823.40	315.3	393.08	4,530.91	9,188.46
Woodville	75.00	65.00	20,894.75	51.5	64.20	815.48	863.15
Rural Power Districts—							
Barrie—Oro township			3,784.90	17.0	21.19	172.56	194.65
Cannington (No. 1)—Brock and Eldon townships			1,823.81	5.1	6.36	75.67	92.09
Cannington (No. 2)—Brock township			1,776.23	4.6	5.73	87.31	89.61
Elmvale—Flos township			2,669.39	7.8	9.72	203.66	120.75
Flesherton—Artmesia township			663.43	1.2	1.50	(114.62)	34.09
Mariposa—Mariposa township			14,356.14	37.4	46.63	560.85	724.46
Markdale—Artemesia township			348.26	1.7	2.12	111.78	18.42
Nottawasaga—Nottawasaga township			4,114.84	14.5	18.08	245.48	196.20
Port Perry—Reach township			1,009.66	2.5	3.12	33.04	50.34
Stayner—Nottawasaga, Sunnidale and Flos townships			4,927.98	17.9	22.32	258.48	251.96
Walkerton Quarry—Brant township			537.46	1.0	1.25	23.56	27.16
Totals—Municipalities			3,796,089.47	14,030.7	17,491.83	162,096.03	188,766.11
Totals—Rural power districts			36,012.10	110.7	138.02	1,657.77	1,799.73
Totals—Companies			338,870.10	1,548.0	1,929.85	13,696.28	17,359.99
Grand Totals			4,170,971.67	15,689.4	19,559.70	177,450.08	207,925.83
Non-operating capital			155,889.59				
			4,326,861.26				

The Commission supplies power to and operates the rural power districts. Revenue derived therefrom is applied to meet the cost of providing the power generated and transmitted to each of the rural power districts as shown in above table of costs.

The results of the operations in rural power districts are shown in operating reports on pages 190 and 191.

SYSTEM *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission, the amount —and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1924.

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923–1924
Renewals	Contingencies	Sinking fund			Credited	Charged	
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
709.97	92.70	.....	5,060.48	7,654.21	2,593.73	.....	.....
193.27	54.30	246.45	2,094.21	2,173.64	79.43	.....	1920–21
112.24	36.20	123.08	1,401.79	1,449.63	47.84	.....	1920–21
2,100.43	315.30	.....	16,528.18	17,833.82	1,305.64	.....	.....
294.68	51.50	369.93	2,458.94	3,479.85	1,020.91	.....	1923–24
48.87	17.00	66.57	520.84	520.84	.....	.....	.....
25.50	5.10	32.23	236.95	236.95	.....	.....	.....
24.97	4.60	31.42	243.64	243.64	.....	.....	.....
30.64	7.80	41.50	414.07	414.07	.....	.....	.....
8.28	1.20	11.80	(57.75)	(57.75)	.....	.....	.....
202.29	37.40	254.59	1,826.22	1,826.22	.....	.....	.....
4.34	1.70	6.08	144.44	144.44	.....	.....	.....
53.65	14.50	72.76	600.67	600.67	.....	.....	.....
14.27	2.50	17.92	121.19	121.19	.....	.....	.....
64.18	17.90	87.08	701.92	701.92	.....	.....	.....
6.61	1.00	9.42	69.00	69.00	.....	.....	.....
48,315.33	14,030.70	47,629.80	478,329.80	552,541.58	77,066.85	2,855.07	.....
483.60	110.70	631.37	4,821.19	4,821.19	.....	.....	.....
4,387.31	.....	5,900.95	43,274.38	46,880.98	*3,606.60	.....	.....
53,186.24	14,141.40	54,162.12	526,425.37	604,243.75	.....	.....	.....

*Transferred to credit of Contingency Reserve.
( ) Indicate credits.

GEORGIAN BAY SYSTEM—

Operating Report for Year

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act*
	Total	Government grant	Balance	
	$ c.	$ c.	$ c.	$ c.
Barrie—Oro township	8,321.33	4,160.67	4,160.66	520.84
Cannington (No. 1)—Brock and Eldon townships	4,657.20	2,112.78	2,544.42	236.95
Cannington (No. 2)—Brock township	4,535.44	1,960.17	2,575.27	243.64
Elmvale—Flos township	1,434.38	717.19	717.19	414.07
Flesherton—Artemesia township	2,641.51	1,320.75	1,320.76	(57.75)
Mariposa—Mariposa township	30,375.77	15,187.89	15,187.88	1,826.22
Markdale—Artemesia township	1,325.86	662.93	662.93	144.44
Nottawasaga—Nottawasaga township	15,058.56	7,529.28	7,529.28	600.67
Port Perry—Reach township	789.43	394.72	394.71	121.19
Stayner—Nottawasaga, Sunnidale and Flos townships	17,269.74	.....	17,269.74	701.92
Walkerton Quarry—Brant township	2,104.91	1,052.46	1,052.45	69.00
Totals	88,514.13	35,098.84	53,415.29	4,821.19

* See "cost of power" table on preceding pages.

RURAL POWER DISTRICTS *RURAL OPERATING*

ending October 31, 1924

Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
356.23	223.30	156.43	78.59	814.55	1,388.82	53.43	.....
99.67	74.33	42.26	26.81	243.07	612.28	132.26	.....
109.20	176.39	39.20	63.62	388.41	868.30	236.25	.....
101.32	43.33	23.91	15.25	183.81	574.61	.....	23.27
62.67	85.22	52.72	27.44	228.05	393.08	222.78	.....
659.12	849.66	607.52	306.49	2,422.79	6,222.52	1,973.51	.....
102.78	12.56	8.83	4.04	128.21	84.04	.....	188.61
362.80	444.87	297.88	156.59	1,262.14	2,423.31	560.50	.....
59.74	24.43	15.79	8.81	108.77	391.87	161.91	.....
493.40	827.04	323.45	291.11	1,935.00	2,541.88	.....	95.04
23.41	63.17	42.09	20.34	149.01	287.07	69.06	.....
2,430.34	2,824.30	1,610.08	999.09	12,685.00	15,787.78	3,409.70	306.92

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality	Date commenced operating	Net credit or charge at October 31, 1924		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alliston	June, 1918	.....	3,329.43	3,329.43	.....
Arthur	Dec., 1916	.....	6,605.39	.....	.....
Barrie	April, 1913	4,060.49	.....	.....	4,060.49
Beaverton	Nov., 1914	435.90	.....	.....	435.90
Beeton	Aug., 1918	500.28	.....	.....	500.28
Bradford	Oct., 1918	.....	7,703.10	856.30	.....
Brechin	Jan., 1915	.....	1,585.95	.....	.....
Cannington	Nov., 1914	507.82	.....	.....	507.82
Chatsworth	Dec., 1915	458.52	.....	.....	458.52
Chesley	July, 1916	433.57	.....	.....	433.57
Coldwater	Mar., 1913	873.29	.....	.....	873.29
Collingwood	Mar., 1913	14,573.78	.....	.....	14,573.78
Cookstown	May, 1918	226.37	.....	.....	226.37
Creemore	Nov., 1914	1,517.20	.....	.....	1,517.20
Dundalk	Dec., 1915	775.42	.....	.....	775.42
Durham	Dec., 1915	2,110.17	.....	.....	2,110.17
Elmvale	June, 1913	1,232.25	.....	.....	1,232.25
Elmwood	April, 1918	227.02	.....	.....	227.02
Flesherton	Dec., 1915	.....	482.23	482.23	.....
Grand Valley	Dec., 1916	.....	1,058.34	1,058.34	.....
Hanover	Sept., 1916	.....	773.12	773.12	.....
Holstein	May, 1916	.....	4,813.01	156.77	.....
Kincardine	Mar., 1921	.....	6,249.60	63.50	.....
Kirkfield	June, 1920	85.21	.....	.....	85.21
Lucknow	Jan., 1921	.....	1,067.41	1,067.41	.....
Markdale	Mar., 1916	507.36	.....	.....	507.36
Meaford	Jan., 1924	.....	.....	.....	.....
Midland	July, 1911	27,707.39	.....	.....	27,707.39
Mount Forest	Dec., 1915	.....	4,528.73	.....	.....
Neustadt	Dec., 1918	216.65	.....	.....	216.65
Orangeville	July, 1916	.....	3,661.80	.....	.....
Owen Sound	Dec., 1915	476.56	.....	.....	476.56
Paisley	Sept., 1923	441.03	.....	.....	441.03
Penetanguishene	July, 1911	4,110.79	.....	.....	4,110.79
Port McNicoll	Jan., 1915	320.85	.....	.....	320.85
Port Perry	Sept., 1922	2,105.17	.....	.....	2,105.17
Priceville	Mar., 1921	.....	157.92	.....	.....
Ripley	Jan., 1921	.....	936.45	936.45	.....
Shelburne	July, 1916	756.87	.....	.....	756.87
Stayner	Oct., 1913	1,568.50	.....	.....	1,568.50
Sunderland	Nov., 1914	.....	1,482.59	250.00	.....
Tara	Feb., 1918	.....	4,239.66	.....	.....
Teeswater	Dec., 1920	.....	243.06	243.06	.....
Thornton	Nov., 1918	.....	1,165.10	.....	.....
Tottenham	Oct., 1918	.....	3,411.51	.....	.....

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	82.46	.....	352.47	.....	434.93
.....	264.22	809.04	.....	.....	6,060.57
78.55	.....	1,670.77	.....	1,749.32	.....
8.69	.....	2,577.92	.....	2,586.61	.....
9.26	.....	428.49	.....	437.75	.....
.....	293.76	780.80	.....	.....	6,359.76
.....	31.63	1,794.12	.....	176.54	.....
9.72	.....	1,550.98	.....	1,560.70	.....
10.45	.....	421.20	.....	431.65	.....
8.02	.....	3,638.38	.....	3,646.40	.....
20.36	.....	.....	89.55	.....	69.19
322.92	.....	4,830.64	.....	5,153.56	.....
4.31	.....	.....	13.81	.....	9.50
19.57	.....	.....	62.80	.....	43.23
15.35	.....	1,557.83	.....	1,573.18	.....
47.68	.....	2,934.67	.....	2,982.35	.....
25.60	.....	539.25	.....	564.85	.....
4.57	.....	.....	198.28	.....	193.71
.....	3.62	324.14	.....	320.52	.....
.....	25.63	.....	82.20	.....	107.83
.....	15.25	5,137.08	.....	5,121.83	.....
.....	190.51	.....	283.80	.....	5,130.55
.....	249.09	2,436.56	.....	.....	3,998.63
1.70	.....	289.92	.....	291.62	.....
.....	27.72	.....	603.39	.....	631.11
9.94	.....	478.91	.....	488.85	.....
.....	.....	2,829.91	.....	2,829.91	.....
392.57	.....	6,666.74	.....	7,059.31	.....
.....	181.15	3,933.87	.....	.....	776.01
4.34	.....	.....	10.01	.....	5.67
.....	146.47	2,411.39	.....	.....	1,396.88
8.83	.....	14,504.71	.....	14,513.54	.....
8.29	.....	1,631.10	.....	1,639.39	.....
99.13	.....	570.68	.....	669.81	.....
6.78	.....	74.67	.....	81.45	.....
47.41	.....	2,308.88	.....	2,356.29	.....
.....	6.32	.....	127.37	.....	291.61
.....	25.15	.....	584.03	.....	609.18
14.01	.....	2,303.59	.....	2,317.60	.....
20.67	.....	410.58	.....	431.25	.....
.....	56.70	1,098.90	.....	.....	190.39
.....	169.59	.....	356.55	.....	4,765.80
.....	8.91	687.23	.....	678.32	.....
.....	46.60	.....	90.81	.....	1,302.51
.....	136.46	386.35	.....	.....	3,161.62

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality or Rural power district	Date commenced operating	Net credit or charge at October 31, 1924		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Uxbridge	Sept., 1922	1,837.86			1,837.86
Victoria Harbor	July, 1914	634.18			634.18
Waubaushene	Dec., 1914	130.23			130.23
Wingham	Dec., 1920		1,754.09	1,754.09	
Woodville	Nov., 1914		541.09	541.09	
Rural Power Districts—					
Barrie	July, 1923		17.91		
Cannington	July, 1924				
Cannington	July, 1924				
Elmvale	Jan., 1924				
Flesherton	Feb., 1922		110.13		
Mariposa	Sept., 1923		27.96		
Markdale	July, 1924				
Nottawasaga	Jan., 1922	245.28			
Port Perry	Dec., 1922	108.53			
Stayner	July, 1923		32.32		
Walkerton Quarry	Feb., 1922	22.72			
Totals		69,207.26	55,977.89	11,511.79	68,830.73

GEORGIAN BAY SYSTEM

Reserve for Renewals Account, October 31, 1924

Total provisions for renewals to October 31, 1923	$397,778.78	
Deduct expenditures to October 31, 1923	27,262.76	
Balance brought forward October 31, 1923		$370,516.02
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them	$50,409.01	
Provision against equipment employed in respect of contracts with sundry companies	4,387.31	
Interest at 4% per annum on monthly balances to the credit of the account	14,820.64	
Renewals reserve provided on second-hand equipment purchased	158.21	
		69,775.17
		$440,291.19
Expenditures during the year ending October 31, 1924		4,076.92
Balance carried forward October 31, 1924		$436,214.27

SYSTEM — *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
36.53	.....	2,593.73	.....	2,630.26	.....
6.71	.....	79.43	.....	86.14	.....
2.45	.....	47.84	.....	50.29	.....
.....	34.02	1,305.64	.....	1,271.62	.....
.....	20.91	1,020.91	.....	1,000.00	.....
.....	0.72	53.43	.....	34.80	.....
.....	.....	132.26	.....	132.26	.....
.....	.....	236.25	.....	236.25	.....
.....	.....	.....	23.27	.....	23.27
.....	4.41	222.78	.....	108.24	.....
.....	1.12	1,973.51	.....	1,944.43	.....
.....	.....	.....	188.61	.....	188.61
9.81	.....	560.50	.....	815.59	.....
4.34	.....	161.91	.....	274.78	.....
.....	1.29	.....	95.04	.....	128.64
0.91	.....	69.06	.....	92.69	.....
1,259.47	2,023.71	80,476.55	3,161.99	68,339.95	35,879.20

GEORGIAN BAY SYSTEM

Reserve for Contingencies Account, October 31, 1924

Total provision for contingencies to October 31, 1923		$77,398.42
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them	$14,141.40	
Net profits from contracts with sundry power customers	3,606.60	
Interest at 4% per annum on monthly balances to the credit of the account	3,095.93	
		20,843.93
		$98,242.35
Deduct:		
Expenditures during the year ending October 31, 1924		16,639.80
Balance carried forward October 31, 1924		$81,602.55

GEORGIAN BAY SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements, the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
Alliston	5 years ending Oct. 31, 1924	7,680.13	1,113.99
Arthur	1 " " " "	1,149.08	4,671.28
Barrie	2 " " " "	8,051.62	19,374.73
Beaverton	.....	.....	7,037.72
Beeton	5 " " " "	6,764.31	815.52
Bradford	5 " " " "	5,884.60	345.97
Brechin	.....	.....	3,139.52
Cannington	.....	.....	5,375.10
Chatsworth	.....	.....	928.57
Chesley	1 " " " "	1,588.36	6,097.67
Coldwater	2 " " " "	735.62	2,237.54
Collingwood	2 " " " "	11,107.89	41,714.14
Cookstown	5 " " " "	2,356.54	499.48
Creemore	3 " " " "	1,409.10	2,513.85
Dundalk	.....	.....	2,365.63
Durham	.....	.....	6,430.74
Elmvale	2 " " " "	1,217.85	3,790.98
Elmwood	3 " " " "	720.71	463.97
Flesherton	.....	.....	1,304.03
Grand Valley	1 " " " "	590.43	2,135.12
Hanover	1 " " " "	4,539.12	21,281.89
Holstein	1 " " " "	212.51	700.95
Kincardine	4 " " " "	7,375.66	278.62
Kirkfield	5 " " " "	889.31	521.15
Lucknow	4 " " " "	3,515.69	127.18
Markdale	1 " " " "	372.83	1,525.75
Meaford	1 " " " "	923.62	74.41
Midland	2 " " " "	6,743.17	37,860.65
Mount Forest	.....	.....	6,147.20
Neustadt	3 " " " "	3,433.68	1,373.22
Orangeville	1 " " " "	1,586.34	5,417.67
Owen Sound	.....	.....	33,407.83
Paisley	2 " " " "	645.81	38.72
Penetang	.....	.....	22,836.88
Port McNicoll	3 " " " "	512.55	929.00
Port Perry	3 " " " "	1,779.78	407.17
Priceville	4 " " " "	408.20	15.67
Ripley	4 " " " "	2,978.83	94.84
Shelburne	1 " " " "	895.67	3,538.29
Stayner	2 " " " "	1,047.06	3,675.29
Sunderland	.....	.....	4,089.84
Tara	3 " " " "	2,210.59	829.63
Teeswater	4 " " " "	3,733.61	205.52
Thornton	5 " " " "	1,030.40	230.22
Tottenham	5 " " " "	3,901.10	241.14

GEORGIAN BAY SYSTEM—Continued
Sinking Fund to year ending October 31, 1924

Municipality or Rural power district	Sinking fund requirements, the payment of which has been deferred.		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c	$ c.
Uxbridge	3 years ending Oct. 31, 1924	1,910.19	415.04
Victoria Harbor	3 " " " "	707.07	1,343.73
Waubaushene	3 " " " "	384.80	708.05
Wingham	4 " " " "	12,389.10	585.94
Woodville			4,421.73
Rural Power Districts—			
Barrie			192.32
Cannington No. 1			330.81
Cannington No. 2			506.32
Elmvale			60.91
Flesherton			117.48
Mariposa			670.94
Markdale			191.53
Nottawasaga			753.60
Port Perry			65.22
Stayner			491.31
Walkerton Quarry			91.78
Totals		113,382.93	269,150.99

GEORGIAN BAY SYSTEM
Sinking Fund Reserve, October 31, 1924

Total provision for sinking fund to October 31, 1923:		
Severn system	$108,881.70	
Eugenia system	66,902.09	
Wasdell system	22,275.82	
		$198,059.61
On rural lines:		
Eugenia system	$256.21	
Wasdell system	1,185.91	
	$1,442.12	
Less amount deducted in respect of lines sold	532.30	
		909.82
Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities		7,149.41
		$206,118.84
Provided in the year ending October 31, 1924:		
In respect of advances by the Province for the construction of transmission lines and stations:		
By charges against municipalities	$49,260.26	
By charges against municipalities (rural lines)	143.07	
By charges against private companies	5,900.95	
		55,304.28
Interest at 4% per annum on the amount standing at the credit of the account		7,958.78
		$269,381.90

GEORGIAN BAY SYSTEM RURAL LINES

Statement showing the total Sinking Fund requirements in respect of each line, and the total of the Sinking Fund payments with Interest allowed thereon to October 31, 1924

Lines operated by	Sinking fund requirements which have been paid		Interest at 4% per annum allowed on sinking fund payments	Total sinking fund payments and accumulated interest to October 31, 1924
	Period covered	Amount		
		$ c.	$ c.	$ c.
Brechin	6 years ending Oct. 31, 1924	81.07	9.14	90.21
Flesherton	7 " " " 1924	119.91	9.53	129.44
Lucknow	8/12 " " " 1924	3.84	.....	3.84
Ripley	3 " " " 1924	7.15	0.27	7.42
Totals	.....	211.97	18.94	230.91

MUSKOKA

Operating Account for Year

COSTS OF OPERATING AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Cost of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of this syetm		$13,369.37
Interest on capital investment		11,579.09
Provisions for renewal of generating plant, lines, stations, etc		2,657.39
Provision for contingencies:		
By charges against municipalities	$1,410.90	
By appropriating the net profits on power sold to sundry customers at Muskoka Falls	29.22	
		1,440.12
Provision for sinking fund;		
By charges against municipalities	$3,795.57	
By charges against contracts with sundry customers at Muskoka Falls	5.11	
		3,800.68
		$32,846.65

GEORGIAN BAY SYSTEM RURAL LINES

Statement showing Interest and Sinking Fund charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1924

Lines operated by	Capital cost	Interest	Sinking fund	Total interest and sinking fund charged
	$ c.	$ c.	$ c.	$ c.
Brechin	886.84	53.07	15.96	69.03
Flesherton	1,857.19	115.15	33.43	148.58
Lucknow	367.70	11.74	3.84	15.58
Ripley	143.14	7.87	2.58	10.45
Totals	3,254.87	187.83	55.81	243.64

SYSTEM

Ending October 31, 1924

REVENUE FOR PERIOD

Collected from municipalities		$33,087.17
Power sold to sundry customers at Muskoka Falls		53.80
		$33,140.97
Deduct:		
Amount collected by a certain municipality in excess of the sum required to be paid by it for power supplied in the period	$404.18	
Less:		
Amount due by a certain municipality, being the difference between the sum paid and the cost of power supplied to it during the period	109.86	
		294.32
Revenue		$32,846.65
		$32,846.65

MUSKOKA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
	To Jan. 1, 1924	To Oct. 31, 1924			Operating, maintenance and administrative expenses	Interest
		$ c.	$ c.		$ c.	$ c.
Gravenhurst	20.00	18.00	43,518.93	451.4	4,289.55	2,333.71
Huntsville	June 1/24 25.00	27.00	169,333.66	959.5	9,079.82	9,229.46
Totals—Municipalities			212,852.59	1,410.9	13,369.37	11,563.17
Muskoka Falls— (Sundry customers)			284.01			15.92
Non-operating capital			174,178.37			
Grand Totals			387,314.97	1,410.9	13,369.37	11,579.09

MUSKOKA

Statement showing the net Credit or Charge to each Municipality in respect added during the year, also the net amount Credited or Charged to each and the accumulated amount standing as a Credit or

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Gravenhurst	Nov., 1915		2,402.88	2,402.88	
Huntsville	Sept., 1916		1,527.65	1,527.65	
Totals			3,930.53	3,930.53	

SYSTEM *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-24
Renewals	Contingencies	Sinking fund			Credited	Charged	
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
543.98	451.40	783.34	8,401.98	8,292.12	.....	109.86	1923–24
2,109.86	959.50	3,012.23	24,390.87	24,795.05	404.18	.....	1923–24
2,653.84	1,410.90	3,795.57	32,792.85	33,087.17	404.18	109.86	.....
3.55	.....	5.11	24.58	53.80	*29.22	.....	1923–24
.....	.....	.....	.....	.....	.....	.....	.....
2,657.39	1,410.90	3,800.68	32,817.43	33,140.97	.....	.....	.....

*NOTE—Transferred to the credit of Contingency Reserve.

SYSTEM *CREDIT OR CHARGE*

of power supplied to it to October 31, 1923, the cash payments, and interest Municipality in respect of power supplied in the year ending October 31, 1924, Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	18.59	.....	109.86	.....	128.45
.....	39.67	404.18	.....	364.51	.....
.....	58.26	404.18	109.86	364.51	128.45

MUSKOKA SYSTEM

Reserve for Renewals Account, October 31, 1924

Total provision for renewals to October 31, 1923		$19,665.78
Deduct expenditures to October 31, 1923		1,180.12
Balance brought forward October 31, 1923		$18,485.66
Added during the year ending October 31, 1924:		
Amount charged to municipalities as part of the cost of power delivered to them	$2,653.84	
Provision against equipment employed in respect of contracts with sundry companies	3.55	
Interest at 4% per annum on monthly balances to the credit of the account	739.43	
Renewals reserve provided on second-hand equipment purchased	37.91	
		3,434.73
		$21,920.39
Expenditures during the year ending October 31, 1924		14.93
Balance carried forward October 31, 1924		$21,905.46

MUSKOKA SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements, the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
Gravenhurst			3,493.88
Huntsville	1 year ending Oct. 31, 1924	3,038.20	10,295.17
Totals		3,038.20	13,789.05

MUSKOKA SYSTEM

Reserve for Contingencies Account, October 31, 1924

Balance brought forward October 31, 1923		$5,623.50
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them	$1,410.90	
Net profits from contracts with sundry power customers	29.22	
Interest at 4% per annum on monthly balances at the credit of the account	224.94	
		1,665.06
		$7,288.56
Expenditures during the year ending October 31, 1924		700.95
Balance carried forward October 31, 1924		$6,587.61

MUSKOKA SYSTEM

Sinking Fund Reserve, October 31, 1924

Total provision for sinking fund to October 31, 1923		$8,682.51
Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities		958.56
		$9,641.07
Provided in the year ending October 31, 1924:		
In respect of advances by the Province for the construction of transmission lines and stations:		
By charges against municipalities	$3,795.57	
By charges against private companies	5.11	
		3,800.68
Interest at 4% per annum on the amount standing at the credit of the account		347.30
		$13,789.05

ST. LAWRENCE

Operating Account for Year

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased		$80,015.22
Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of the system		34,937.52
Interest on capital investment		58,615.94
Provision for renewal of generating plant, lines, and stations, etc		21,489.11
Provision for contingencies:		
By charges against municipalities	$2,425.70	
By appropriating the net profit on power sold to private companies	5,884.88	
		8,310.58
Provisions for sinking fund:		
By charges against municipalities	$7,626.14	
By charges against contracts with private companies which purchased power	7,294.84	
		14,920.98
		$218,289.35

ST. LAWRENCE SYSTEM—

Operating Account for year ending October 31, 1924, included in above account

Power purchased from the Commission	$3,666.06
Costs of operating and maintaining transmission lines and equipment	2,082.96
Interest on capital investment	1,837.11
Provision for renewals of lines and equipment	1,139.27
Provision for sinking fund for repayment of cash advances	573.55
	$9,298.95

SYSTEM

Ending October 31, 1924

REVENUE FOR PERIOD

Collected from municipalities		$124,419.37
Power sold to private companies		108,910.91
		$233,330.28
Deduct:		
Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period	$16,659.68	
Less:		
Amounts due by certain municipalities being the difference between sums paid and the cost of power supplied to them in the period	1,618.75	15,040.93
		$218,289.35

RURAL POWER DISTRICTS

of St. Lawrence System. For detail report see pages 206-207.

Revenue collected from rural power districts		$9,462.74
Add—		
Deficit on operation of certain rural power districts	$80.41	
Deduct—		
Surplus on operation of certain rural power districts	244.20	163.79
		$9,298.95

ST. LAWRENCE

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such cost— upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To June 30, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alexandria...	80.00	80.00	113,125.81	217.5	2,802.10	2,197.47	6,462.53
Apple Hill...	85.00	80.00	10,635.03	26.7	343.98	403.58	606.58
Brockville....	40.00	38.00	236,999.29	1,395.4	17,977.28	7,077.21	12,576.74
Chesterville..	65.00	60.00	63,839.09	193.3	2,490.33	1,609.69	3,452.69
Lancaster....	97.00	97.00	37,567.73	27.2	350.42	890.48	2,158.86
Martintown..	75.00	75.00	5,467.93	14.6	188.09	414.63	311.34
Maxville.....	86.00	86.00	41,500.05	56.1	722.75	626.33	2,379.97
Prescott.....	45.00	40.00	45,567.70	279.0	3,594.42	1,823.73	2,410.78
Williamsburg	75.00	65.00	7,399.50	21.9	282.14	420.20	402.39
Winchester...	65.00	60.00	29,718.41	106.1	1,366.91	1,271.73	1,597.62
Rural Power Districts—							
Brockville—Elizabethtown twp.			5,687.58	31.1	400.67	186.05	274.42
Chesterville—Winchester twp..			2,443.92	7.4	95.34	52.38	133.29
Martintown—Charlottenburg tp			5,717.54	10.4	133.99	189.60	309.64
Prescott—Edwardsburg twp....			6,369.70	39.0	502.45	195.97	336.03
Totals—Municipalities.....			591,820.54	2,337.8	30,118.42	16,735.05	32,359.50
Totals—Rural Power Districts....			20,218.74	87.9	1,132.45	624.00	1,053.38
Totals—Companies.....			406,090.25	3,785.1	48,764.35	15,495.51	23,365.95
Grand Totals.....			1,018,129.53	6,210.8	80,015.22	32,854.56	56,778.83

The Commission supplies power to and operates the rural power districts. Revenue derived therefrom is applied to meet the cost of providing the power generated and transmitted to each of the rural power districts as shown in above table of costs.

The results of the operations in rural power districts are shown in operating reports in table below.

ST. LAWRENCE SYSTEM—

Operating Report for Year

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act*
	Total	Government grant	Balance	
	$ c.	$ c.	$ c.	$ c.
Brockville—Elizabethtown twp.....	19,188.25	9,594.13	9,594.12	1,108.39
Chesterville—Winchester twp.....	4,155.50	2,077.75	2,077.75	381.28
Martintown—Charlottenburg twp.....	8,497.54	3,325.74	5,171.80	860.88
Prescott—Edwardsburg twp.....	25,763.73	12,881.86	12,881.87	1,315.51
Totals.....	57,605.02	27,879.48	29,725.54	3,666.06

*See "cost of power" table above.

SYSTEM *COST OF POWER*

Section 23 of the Act) of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-24
Renewals	Contingencies	Sinking Fund			Credited	Charged	
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
2,262.51	217.50	.....	13,942.11	17,397.62	3,455.51	.....	.....
212.70	26.70	.....	1,593.54	2,096.83	503.29	.....	.....
4,739.98	1,395.40	4,053.62	47,820.23	54,567.24	6,747.01	.....	1922–23
1,276.77	193.30	1,149.10	10,171.88	12,097.62	1,925.74	.....	1923–24
751.36	27.20	.....	4,178.32	2,639.98	.....	1,538.34	.....
109.36	14.60	.....	1,038.02	1,096.24	58.22	.....	.....
831.27	56.10	.....	4,616.42	4,855.24	238.82	.....	.....
911.35	279.00	820.22	9,839.50	11,970.77	2,131.27	.....	1923–24
150.41	21.90	130.77	1,407.81	1,562.24	154.43	.....	1923–24
594.37	106.10	534.93	5,471.66	6,672.85	1,201.19	.....	1923–24
113.76	31.10	102.39	1,108.39	1,108.39	.....	.....	.....
48.88	7.40	43.99	381.28	381.28	.....	.....	.....
114.34	10.40	102.91	860.88	860.88	.....	.....	.....
127.40	139.00	114.66	1,315.51	1,315.51	.....	.....	.....
11,840.08	2,337.80	6,688.64	100,079.49	114,956.63	16,415.48	1,538.34	.....
404.38	87.90	363.95	3,666.06	3,666.06	.....	.....	.....
8,105.38	.....	7,294.84	103,026.03	108,910.91	*5,884.88	.....	.....
20,349.84	2,425.70	14,347.43	206,771.58	227,533.60	.....	.....	.....

*Transferred to the credit of Contingency Reserve.

RURAL POWER DISTRICTS *RURAL OPERATING*

Ending October 31, 1924

Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
765.55	564.89	376.85	176.36	2,992.04	3,114.30	122.26	.....
88.63	128.31	83.11	40.05	721.38	761.89	40.51	.....
344.67	337.34	168.51	105.33	1,816.73	1,736.32	.....	80.41
884.11	806.57	510.80	251.81	3,768.80	3,850.23	81.43	.....
2,082.96	1,837.11	1,139.27	573.55	9,298.95	9,462.74	244.20	80.41

ST. LAWRENCE

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality or Rural power district	Date commenced operating	Net credit or charge at October 31, 1924		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alexandria	Jan., 1921	.....	1,461.94	.....	.....
Apple Hill	April, 1921	.....	113.95	113.95	.....
Brockville	April, 1915	8,160.90	.....	.....	8,160.90
Chesterville	April, 1914	1,611.06	.....	.....	1,611.06
Lancaster	May, 1921	.....	5,295.32	.....	.....
Martintown	May, 1921	31.25	.....	.....	31.25
Maxville	Feb., 1921	.....	3,328.05	.....	.....
Prescott	Dec., 1913	2,307.54	.....	.....	2,307.54
Williamsburg	April, 1915	364.69	.....	.....	364.69
Winchester	Jan., 1914	2,706.22	.....	.....	2,706.22
Rural Power Districts—					
Brockville	July, 1922	1,341.47	.....	.....	.....
Chesterville	May, 1922	.....	38.48	.....	.....
Martintown	Jan., 1922	.....	900.29	.....	.....
Prescott	June, 1922	.....	194.10	.....	.....
Totals	.....	16,523.13	11,332.13	113.95	15,181.66

ST. LAWRENCE SYSTEM

Reserve for Renewals Account, October 31, 1924

Total provisions for renewals to October 31, 1923		$96,460.02
Deduct expenditures to October 31, 1923		8,664.67
Balance brought forward October 31, 1923		$87,795.35
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them	$13,383.73	
Provision against equipment employed in respect of contracts with sundry companies	8,105.38	
Interest at 4% per annum on monthly balances to the credit of the account	3,511.81	
		25,000.92
		$112,796.27
Expenditures during the year ending October 31, 1924		539.60
Balance carried forward to October 31, 1924		$112,256.67

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	58.48	3,455.51	.....	1,935.09	.....
.....	2.62	503.29	.....	500.67	.....
162.29	.....	6,747.01	.....	6,909.30	.....
31.72	.....	1,925.74	.....	1,957.46	.....
.....	211.81	.....	1,538.34	.....	7,045.47
0.71	.....	58.22	.....	58.93	.....
.....	133.12	238.82	.....	.....	3,222.35
46.66	.....	2,131.27	.....	2,177.93	.....
7.31	.....	154.43	.....	161.74	.....
42.55	.....	1,201.19	.....	1,243.74	.....
53.66	.....	122.26	.....	1,517.39	.....
.....	1.54	40.51	.....	.49	.....
.....	36.01	.....	80.41	.....	1,016.71
.....	7.76	81.43	.....	.....	120.43
344.90	451.34	16,659.68	1,618.75	16,462.74	11,404.96

ST. LAWRENCE SYSTEM

Reserve for Contingencies Account, October 31, 1924

Total provision for contingencies to October 31, 1923		$22,868.03
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them	$2,425.70	
Net profits from contracts with sundry power customers	5,884.88	
Interest at 4% per annum on monthly balances to the credit of the account	914.72	
		9,225.30
		$32,093.33
Balance carried forward October 31, 1924		$32,093.33

ST. LAWRENCE SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality or Rural power district	Sinking fund requirements, the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
Alexandria	4 years ending Oct. 31, 1924	7,335.00	1,923.60
Apple Hill	4 " " " "	619.99	215.13
Brockville	1 " " " "	4,265.98	34,872.77
Chesterville	.....	.....	8,330.33
Lancaster	4 " " " "	2,319.13	227.62
Martintown	4 " " " "	337.12	123.92
Maxville	4 " " " "	2,634.33	471.52
Prescott	1 " " " "	.....	7,744.99
Williamsburg	1 " " " "	132.34	700.42
Winchester	.....	.....	4,151.67
Rural Power Districts—			
Brockville	.....	.....	1,386.55
Chesterville	.....	.....	253.11
Martintown	.....	.....	622.65
Prescott	.....	.....	1,096.68
Totals	.....	17,643.89	62,120.96

RIDEAU

Operating Account for Year

COSTS OF OPERATING AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased		$6,660.36
Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of the system		23,686.41
Interest on capital investment		66,444.88
Provision for renewal of generating plant, lines, stations, etc.		10,812.05
Provision for contingencies:		
By charges against municipalities	$2,361.10	
By appropriating the net profit on power sold to private company	2,132.44	4,493.54
Provision for sinking fund:		
By charges against municipalities	$5,247.43	
By charges against contracts with private company which purchased power	3,007.91	8,255.34
		$120.534.58

ST. LAWRENCE SYSTEM

Sinking Fund Reserve, October 31, 1924

Total provision for sinking fund to October 31, 1923		$44,283.34
Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities		1,145.31
		$45,428.65
Provided in the year ending October 31, 1924:		
In respect of advances by the Province for the construction of transmission lines and stations:		
By charges against municipalities	$7,626.14	
By charges against private companies	7,294.84	
		14,920.98
Interest at 4% per annum on the amounts standing at the credit of the account		1,771.33
		$62,120.96

SYSTEM

ending October 31, 1924

REVENUE FOR PERIOD

Collected from municipalities		$105,225.34
Power sold to private company		21,787.99
		$127,013.33
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$8,228.15	
Less:		
Amounts due by certain municipalities, being the difference between sums paid and the cost of power supplied to them in the year	1,749.40	
		6,478.75
Revenue		$120,534.58

RIDEAU

Statement showing the amount to be paid by each Municipality as the Cost received by the Commission from each Municipality on account of such cost— upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To June 1 1924,	To Oct. 31, 1924				Operating maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Carleton Pl'e	44.00	46.50	337,021.49	857.7	2,007.73	6,787.60	20,699.47
Kemptville..	60.00	60.00	57,238.55	115.	269.19	1,709.57	3,515 91
Lanark.....	75.00	75.00	22,636.75	33.5	78.42	568.83	1,390.67
Perth.....	45.00	47.50	206,022.64	500.7	1,172.05	4,241.20	12,653.97
Smiths Falls.	40.00	40.00	291,718.90	854.2	1,999.54	6,987.48	17,915.44
Totals—Municipalities.....			915,638.33	2,361.1	5,526.93	20,294.68	56,175.46
Totals—Companies.....			167,215.78	484.2	1,133.43	3,573.73	10,269.42
Non-operating capital.....			59.29	.....	.....	.....	.....
Grand Totals.....			1,081,913.40	2,845.3	6,660.36	23,868.41	66,444.88

RIDEAU

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Carleton Place.....	May, 1919	.....	2,026.90	2,026.90	.....
Kemptville.....	Dec., 1921	113.97	.....	.....	113.97
Lanark.....	Sept., 1921	0.68	.....	.....	0.68
Perth.....	Feb., 1919	.....	1,295.02	1,295.02	.....
Smiths Falls.....	Sept., 1919	.....	1,899.17	1,899.17	.....
Totals.....	.....	114.65	5,221.09	5,221.09	114.65

SYSTEM *COST OF POWER*

(under Section 23 of the Act) of Power supplied to it by the Commission—the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-24
Renewals	Contingencies	Sinking fund			Credited	Charged	
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
3,368.26	857.70	.....	33,720.76	38,609.44	4,888.68	.....	.....
572.12	115.00	.....	6,181.79	6,901.00	719.21	.....	.....
226.29	33.50	.....	2,297.71	2,514.36	216.65	.....	.....
2,059.08	500.70	.....	20,627.00	23,030.61	2,403.61	.....	.....
2,915.24	854.20	5,247.43	35,919.33	34,169.93	.....	1,749.40	1923–24
9,140.99	2,361.10	5,247.43	98,746.59	105,225.34	8,228.15	1,749.40	.....
1,671.06	.....	3,007.91	19,655.55	21,787.99	*2,132.44	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
10,812.05	2,361.10	8,255.34	118,402.14	127,013.33	.....	.....	.....

*NOTE—Transferred to the credit of Contingency Reserve.

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	42.42	4,888.68	.....	4,846.26	.....
2.27	.....	719.21	.....	721.48	.....
0.01	.....	216.65	.....	216.66	.....
.....	46.41	2,403.61	.....	2,357.20	.....
.....	38.11	.....	1,749.40	.....	1,787.51
2.28	126.94	8,228.15	1,749.40	8,141.60	1,787.51

RIDEAU SYSTEM

Reserve for Renewals Account

Total provision for renewals to October 31, 1923		$46,053.03
Deduct expenditures to October 31, 1923		642.66
Balance brought forward, October 31, 1923		$45,410.37
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them	$9,140.99	
Provision against equipment employed in respect of contracts with private company	1,671.06	
Interest at 4% per annum on monthly balances to the credit of the account	1,816.41	12,628.46
		$58,038.83
Expenditures during the year ending October 31, 1924		7.29
Balance carried forward October 31, 1924		$58,031.54

RIDEAU SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements, the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		$ c.	$ c.
Carleton Place	1 year ending Oct. 31, 1924	6,062.87	1,471.44
Kemptville	1 " " " "	1,029.80	197.29
Lanark	1 " " " "	407.33	57.47
Perth	1 " " " "	3,706.35	858.98
Smiths Falls	.....	.....	6,712.86
Totals	.....	11,206.35	9,298.04

RIDEAU SYSTEM

Reserve for Contingencies Account

Balance brought forward, October 31, 1923		$11,657.07
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them	$2,361.10	
Net profit from contract with private company	2,132.44	
Interest at 4% per annum on monthly balances to the credit of the account	466.28	
		4,959.82
Balance carried forward, October 31, 1924		$16,616.89

RIDEAU SYSTEM

Sinking Fund Reserve, October 31, 1924

Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities		$1,042.70
Provided in the year ending October 31, 1924:		
In respect of advances by the Province for the construction of transmission lines and stations:		
By charges against municipalities	$5,247.43	
By charges against private companies	3,007.91	
		8,255.34
		$9,298.04

THUNDER BAY

Operating Account for Year

COST OF OPERATION

Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of this system....	$68,678.54	
Interest on capital investment.....	450,721.42	
		$519,399.96
Surplus (applicable to Contingencies and Renewals Reserves).....		52,560.09
		$571,960.05

HYDRO-ELECTRIC POWER

Account with the Provincial Treasurer

APRIL 31, 1924:	
Cheque to cover interest for six months, November 1, 1923, to April 30, 1924	$3,618,934.51
OCTOBER 31, 1924:	
Cheque to cover interest for six months, May 1, 1924, to October 31, 1924 .	3,722,793.21
	$7,341,727.72
NOVEMBER 1, 1923, to OCTOBER 31, 1924:	
Provincial expenditures.....	118,932.77
Balance carried down.....	138,657,796.71
	$146,118,457.20

SYSTEM

Ending October 31, 1924

REVENUE FOR PERIOD

Revenue from city of Port Arthur	$365,422.57
Power sold to private companies	206,537.48
	$571,960.05

COMMISSION OF ONTARIO

for the Year Ending October 31, 1924

OCTOBER 31, 1924:		
Sundry cash advances:		
General account	$55,224,519.68	
Chippawa Development account	68,446,987.31	
Central Ontario system	14,265,020.30	
Provincial expense account	272,580.61	
		$138,209,107.90
Deferred interest in respect to Nipigon system to October 31, 1923		567,621.58
Interest on balances to October 31, 1924		7,341,727.72
		$146,118,457.20
NOVEMBER 1, 1924:		
Balance		$138,657,796.71

SANDWICH, WINDSOR AND

Operating Account for the

EXPENDITURE

Transportation expenses	$249,234.61	
Maintenance—way and structures	63,469.37	
Maintenance—equipment	89,308.15	
Power	93,093.58	
General operating and management expenses	43,108.25	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the Railway	15,367.69	
Taxes	1,089.48	
Insurance—Fire and Liability	33,297.14	
Written off valuation and other expenses re purchase of the railways and re issue of bonds	1,779.54	
Total operating expenses		$589,747.81
Interest on debentures and bank borrowings		171,178.97
		$760,926.78
Reserve for renewal of road and equipment provided to extent of net revenue available		13,980.33
		$774,907.11

GUELPH RADIAL

Operating Account for the

EXPENDITURE

Transportation expense	$21,776.08	
Maintenance—way and structures	7,731.33	
Maintenance—equipment	12,663.41	
Power	9,933.48	
General operating and management expenses	9,179.54	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the Railway	2,329.52	
Insurance—Fire and Liability	4,195.80	
Taxes	2,644.72	
Written off valuation and other expenses re purchase by the Commission	256.30	
Total operating expenses		$70,710.18
Interest on debentures and bank borrowings		17,603.58
Provision for instalments payable to city of Guelph on May 1, 1924 and November 1, 1924 under purchase agreement:		
Interest for year	$6,105.26	
On account of principal	5,594.74	
		11,700.00
		$100,013.76

AMHERSTBURG RAILWAY

Year ending October 31, 1924

REVENUE

Passenger	$711,480.62
Freight and express	46,293.30
Miscellaneous	17,133.19
	$774,901.11

RAILWAY

Year ending October 31, 1924

REVENUE

Operating revenue	$79,081.15
Net deficit for year after provision for instalments of principal and interest payable to city of Guelph	20,932.61
	$100,013.76

TORONTO AND YORK

Combined Operating Account for

EXPENDITURE

	Metropolitan	Scarboro	Mimico	Total
	$ c.	$ c.	$ c.	$ c.
Transportation expenses	155,872.98	39,823.31	87,593.92	283,290.21
Maintenance—Way and structures	101,965.92	14,724.28	22,516.03	139,206.23
Maintenance—Equipment	65,717.12	10,367.38	18,221.06	94,305.56
Power costs	104,435.90	22,332.09	35,674.26	162,442.25
General operating and management expenses	41,749.91	6,672.21	13,195.06	61,617.18
Proportion of the administrative and accounting expenses of the Commission chargeable to the operation of the railways	14,945.82	2,075.22	4,148.51	21,169.55
Taxes	10,557.05	663.12	1,933.57	13,153.74
Insurance—Fire and liability	29,005.09	4,652.87	9,597.39	43,235.35
Written off valuation and other expenses re purchase by the Commission	3,371.92	432.66	480.06	4,284.64
Total operating expenses	527,621.71	101,743.14	193,359.86	822,724.71
Interest: On bonds, $2,375,000.00 issued by the Commission, to cover the purchase price of the railways	112,500.00	14,400.00	15,600.00	142,500.00
Bank and other interest	33,125.65	1,596.66	3,658.16	38,380.47
	673,247.36	117,739.80	212,618.02	1,003,605.18

RADIAL RAILWAYS

Year ending October 31, 1924

REVENUE

	Metropolitan	Scarboro	Mimico	Total
	$ c.	$ c.	$ c.	$ c.
Passenger	351,712.88	84,724.25	176,178.37	612,615.50
Freight	115,536.84	.....	.....	115,536.84
Rentals of property—including amount charged Niagara system for use of poles	15,427.13	778.63	279.92	16,485.68
Miscellaneous	8,269.74	1,553.53	602.55	10,425.82
	490,946.59	87,056.41	177,060.84	755,063.84
Net deficit for the year after payment of interest on the bonds issued by the Commission to cover its investment in the railways	182,300.77	30,683.39	35,557.18	248,541.34
	673,247.36	117,739.80	212,618.02	1,003,605.18

CENTRAL ONTARIO AND TRENT SYSTEM AND NIPISSING SYSTEM

The following balance sheet and operating account relate to the systems known as "Central Ontario and Trent" and "Nipissing," which together serve electrical energy to fifty-seven municipalities and companies. The Central Ontario and Trent system extends from the municipality of Whitby on the west to and including the city of Kingston on the east and as far north as Lindsay. The Nipissing system supplies the town of North Bay and vicinity. These systems were purchased by the provincial Government, as at the 1st of March, 1916, from the Electric Power Company, Limited, which owned or controlled the capital stock of twenty-two subsidiary companies, the purchase price being the sum of $8,350,000, payable in ten years, secured by a government bond issue bearing interest at four per cent per annum.

Since the acquisition of these properties, and their transfer to the Commission to operate in trust for the Government, it has been found necessary to enlarge, extend and improve the systems to meet the increasing demands for electrical service.

The Central Ontario system and the Trent system both receive their electrical energy from the same sources of power supply through the same main transmission network, and from the standpoint of power development and electrical operation are regarded as a unit and now known as the Central Ontario and Trent system. It may be explained that after the Central Ontario system was purchased by the Provincial Government, a number of municipalities in Central Ontario, from time to time, applied to the Hydro-Electric Power Commission for power to be supplied under the provisions of the Power Commission Act. The municipalities in central Ontario which thus enter into direct relationship with the Hydro-Electric Power Commission are for purposes of financial administration grouped in what is termed the "Trent" system.

The operation of these two systems—the "Central Ontario and Trent" and the "Nipissing"—entails the generation, transformation and transmission of electrical energy to thirty-seven municipalities and twenty companies, and in addition thereto the operation of three gas plants—at Peterborough, Oshawa and Cobourg, the Cobourg waterworks, the Peterborough street railway, the Campbellford pulp mill and certain pulpwood limits connected therewith.

With the exception of fourteen municipalities, namely, Bloomfield, Havelock, Kingston, Lakefield, Madoc, Marmora, Norwood, Omemee, Peterborough, Picton, Stirling, Warkworth, Wellington and Whitby, ten of which were connected to the system subsequent to the date of purchase, and constitute the Trent system, the whole property, local and otherwise, is operated and maintained by the Commission. Although the ownership of the whole plant is vested in the province (except the fourteen local systems of the municipalities mentioned), precisely the same methods, with respect to the control of rates, operation, maintenance, and provision for renewal of plant and equipment, are applied, as appertain to the other systems controlled and operated by the Commission.

An annual adjustment of the system's capital cost and expenses is made and those municipalities operating their own utilities and which have contracts for power to be supplied at cost, receive an additional charge or credit—as the case may be—on account of power cost as ascertained by this adjustment, just as is done in the case of the municipalities comprising the Niagara system and other systems.

CENTRAL ONTARIO

(ALSO NIPISSING

Operated by the Hydro-Electric

Statement of Assets and

ASSETS		
Central Ontario:		
Power developments and hydraulic rights	$7,392,892.15	
Transformer stations	730,509.00	
Transmission lines	1,678,347.55	
		$9,801,748.70
Local Utilities—Electric, gas, water and street railway		2,763,369.30
Service buildings		17,477.57
Nipissing:		
Power development and standby plant	$687,016.08	
Transformer stations	34,140.12	
Transmission lines	46,940.05	
		768,096.25
Local Utilities—Electric		213,579.18
Service buildings		6,323.19
Rural Power Districts	$95,157.94	
Less Government bonus	47,578.97	
		47,578.97
Pulp mill and pulpwood areas		537,248.89
		$14,155,422.05
Sinking Fund Investments:		
In securities of the Province of Ontario—at par value	$51,000.00	
Interest accrued thereon	1,002.08	
		52,002.08
Reserve Fund Investments:		
In securities of the Province of Ontario—at par value	$292,000.00	
In securities of (or guaranteed by) the Dominion of Canada —at par value	700,000.00	
Interest accrued thereon	17,650.00	
		1,009,650.00
Other Investments:		
Debentures of the town of Trenton re sale of waterworks	$18,850.05	
Debentures of the town of Napanee re sale of property and water privileges	12,499.15	
Interest accrued thereon	1,221.19	
		32,570.39
Inventories:		
Tools and equipment	$66,312.46	
Material and supplies	254,298.55	
		320,611.01
Accounts Receivable:		
Power and pulp mill accounts	$96,038.31	
Consumers' supply—sales accounts	20,785.43	
Consumers' light and power accounts	36,898.58	
	$153,722.32	
Less: Reserve for doubtful accounts	4,652.73	
		149,069.59
Advances on contracts for pulpwood		6,643.04
Balances due by certain municipalities in respect of the cost of power supplied to them, as provided to be paid under their contracts with the Commission		35,683.35
Cash in banks		4,694.20
Hydro-Electric Power Commission of Ontario—current account		274,992.00
Expenses and insurance prepaid		5,181.22
Premium (less discounts) on purchase of securities—less portion written off		14,683.20
		$16,061,202.13

AND TRENT SYSTEM

SYSTEM)

Power Commission of Ontario

Liabilities, October 31, 1924

LIABILITIES		
Provincial Treasurer:		
Purchase price of System	$8,350,000.00	
Debentures issued in connection with purchase of Bruton Township pulpwood area	225,000.00	
Cash advances	5,690,020.30	
		$14,265,020.30
Debentures assumed in respect of rural lines in Whitby and East Whitby townships	$14,818.19	
Interest accrued thereon	685.60	
		15,503.79
Accounts payable and accrued charges	$34,667.91	
Consumers' deposits	19,369.04	
Unearned water rates	2,492.00	
		56,528.95
Balances due to certain municipalities in respect of amounts paid by them in excess of the cost of power supplied to them as provided to be paid under their contracts with the Commission		15,107.24
Reserves for Sinking Funds:		
For retirement of bonds issued in purchase of Bruton Township pulpwood areas	$44,928.36	
For repayment of cost of mill at Bancroft	6,873.24	
		51,801.60
Reserve for renewals		1,497,644.38
Reserve for contingencies		149,330.34
Surplus		10,265.53
Contingent Liabilities:		
In respect of contracts entered into for works under construction		
		$16,061,202.13

CENTRAL ONTARIO

(ALSO NIPISSING

Operating Account for the Year

Cost of Operation		
Power Department:		
Power purchased	$11,272.86	
Cost of operating and maintaining generating plants, transmission lines, stations, rural power districts, etc., including rentals of water powers, and the proportion of administrative expenses chargeable to the operation of the Power Department	439,882.39	
Interest on capital investment	426,722.64	
Provision for renewal of generating plants, lines, stations, rural power districts, etc	84,872.77	
Provision for contingencies	40,055.60	
		$1,002,806.26
Utilities:		
Cost of operating and maintaining electric light distribution systems, gas systems, water system, and the Peterborough Street Railway, including all materials and supplies purchased, and the proportion of administrative expenses chargeable to the operation of these utilities	$431,195.60	
Interest on capital investment	132,401.98	
Provision for renewal of plants and equipment	50,056.51	
		613,654.09
Total cost of operation of Power Department and Utilities		$1,616,460.35
Net loss for year on operation of pulp mill and Bruton Township pulpwood areas		35,269.00
		$1,651,729.35
Net operating surplus for year		132,945.48
		$1,784,674.83

	Surplus
Debit balance brought forward from October, 1923	$122,679.95
Balance, as shown on statement of Assets and Liabilities	10,265.53
	$132,945.48

AND TRENT SYSTEM

SYSTEM)

ending October 31, 1924

	Revenue for Period	
Power sold to private companies and certain municipalities.....	$313,395.37	
Power supplied to certain other municipalities at cost in accordance with their contracts with the Commission.....	156,440.75	
Power supplied, at cost, to the Peterborough Street Railway and the Campbellford Pulp Mill, and works under construction.	53,750.23	
		$523,586.35
Light and power sold to consumers on the nineteen electric light distribution systems.....	$917,283.28	
Gas sold to consumers on three gas systems, and sales of by-products.....	204,199.43	
Water sold to consumers on one water system.....	36,060.48	
Revenue from Peterboro Street Railway.....	80,683.16	
		1,238,226.35
Total revenue from Power Department and Utilities.....		$1,761,812.70
Net profit on sale of equipment and supplies.....		22,862.13
		$1,784,674.83

Account	
Net operating surplus for the year ending October 31, 1924.....	$132,945.48
	$132,945.48

CENTRAL ONTARIO

Statement showing the amount to be paid by each of the following Municipalities received by the Commission from each Municipality on account of such ascertaining, by annual adjustment, the actual cost of power

Municipality	Interim rates per horse-power collected by Commission during year	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.		$ c.	$ c.
Bloomfield	70.00	35,173.10	61.7	982.31	1,559.51
Havelock	58.00	36,932.37	82.7	1,427.42	1,619.25
Lakefield	42.00	49,493.39	108.0	2,001.16	2,176.77
Marmora	35.00	17,087.74	49.9	827.34	741.01
Norwood	35.00	22,939.39	79.6	1,213.18	982.41
Peterboro	22.50	1,008,381.37	4,563.3	41,859.13	42,188.31
Picton	48.00	172,001.81	359.5	4,603.82	7,578.09
Warkworth	85.51	13,693.81	32.9	579.07	601.02
Wellington	46.00	35,626.05	81.2	1,141.90	1,563.98
Whitby*	29.00	149,462.50	629.2	6,652.73	6,300.63
RURAL POWER DISTRICTS—					
Bowmanville—Darlington twp		963.82	2.5	38.01	39.31
Campbellford—Seymour twp		10,042.80	15.0	182.76	206.38
Kingston—Kingston twp		27,683.37	43.6	1,401.19	1,278.98
Oshawa—East Whitby twp. —Whitby twp. —Pickering twp		46,836.75	89.4	3,009.03	2,423.46
Trenton—Murray twp		579.50	1.0	20.73	22.38
Totals		1,626,897.77	6,199.5	65,939.78	69,281.49

*NOTE.—Contract with municipality of Whitby not yet signed. Amount credited to Whitby, $18,248.11, represents $15,731.17 cash received therefrom and $2,516.94 charged there against but unpaid.

AND TRENT SYSTEM *COST OF POWER*

as the Cost of Power supplied to it under its contract with the Commission, the amount cost, and the amount credited or charged to each Municipality upon supplied to it in the year ending October 31, 1924

costs and fixed charges		Total cost of power for year as provided to be paid under contracts	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertaining the actual cost of power by annual adjustment	
Renewals	Contingencies			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
376.88	61.70	2,980.40	4,322.47	1,342.07	.....
376.62	82.70	3,505.99	4,796.76	1,290.77	.....
508.77	108.00	4,794.70	4,529.09	.....	265.61
162.83	49.90	1,781.08	1,745.87	.....	35.21
205.25	79.60	2,480.44	2,785.08	304.64	.....
7,910.07	4,563.30	96,520.81	102,674.59	6,153.78	.....
1,784.26	359.50	14,325.67	17,253.72	2,928.05	.....
138.04	32.90	1,351.03	2,811.80	1,460.77	.....
362.71	81.20	3,149.79	3,737.84	588.05	.....
1,222.66	629.20	14,805.22	18,248.11	3,442.89	.....
15.68	2.50	95.50	178.20	82.70	.....
91.28	15.00	495.42	769.82	274.40	.....
647.04	43.60	3,370.81	3,984.51	613.70	.....
1,205.68	89.40	6,727.57	11,593.57	4,866.00	....
12.21	1.00	56.32	72.40	16.08	.....
15,019.98	6,199.50	156,440.75	179,503.83	23,363.90	300.82

CENTRAL ONTARIO

Statement showing the net Credit or Charge to each of the following Municipalities thereon, adjustments made, and interest added during the year, also the net in the year ending October 31, 1924, and the accumulated amount

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments, made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Bloomfield	April, 1919	324.38			324.38
Havelock	Feb., 1921	803.15			803.15
Lakefield	Aug., 1920		143.78	143.78	
Marmora	Jan., 1921		173.81	173.81	
Norwood	Feb., 1921	19.48			19.48
Peterboro	Mar., 1913		39,941.17		
Picton	April, 1919	2,753.42			2,753.42
Warkworth	Oct., 1923		137.04	137.04	
Wellington	April, 1919	651.74			651.74
Whitby*	Mar., 1916		864.95		
RURAL POWER DISTRICTS—					
Bowmanville — Darlington twp.	Jan., 1924				
Campbellford — Seymour twp.	Aug., 1924				
†Kingston—Kingston twp.	Jan., 1923	415.16		122.99	
‡Oshawa—East Whitby twp.					
—Whitby twp.					
—Pickering twp.	April, 1918		7,135.20	5,555.57	
Trenton—Murray twp.	Jan., 1924				
Totals		4,967.33	48,395.95	6,133.19	4,552.17

*Contract with municipality of Whitby not yet signed. As against the above credit balance of $2,543.34 owing to Whitby, there are arrears on monthly power bills owing by that municipality of $9,111.35, making a net amount owing by Whitby of $6,568.01.

CENTRAL ONTARIO AND TRENT SYSTEM
(ALSO NIPISSING SYSTEM)

Reserve for Renewals Account, October 31, 1924

Total provision for renewals to October 31, 1923		$1,427,112.78
Deduct:		
Expenditures to October 31, 1923		99,606.53
Balance brought forward, October 31, 1923		$1,327,506.25
Added during the year ending October 31, 1924:		
By charges against operations	$138,527.44	
Interest at 4% per annum on the monthly balances to the credit of the account	53,134.53	
		191,661.97
		$1,519,168.22
Deduct:		
Expenditures during the year ending October 31, 1924		21,523.84
Balance carried forward, October 31, 1924		$1,497,644.38

AND TRENT SYSTEM *CREDIT OR CHARGE*

in respect of power supplied to it to October 31, 1923, the cash receipts and payments amount Credited or Charged to each Municipality in respect of power supplied standing as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7.39	.....	1,342.07	.....	1,349.46	.....
21.01	.....	1,290.77	.....	1,311.78	.....
6.47	.....	.....	265.61	.....	259.14
.....	3.96	.....	35.21	.....	39.17
0.45	.....	304.64	.....	305.09	.....
.....	1,597.65	6,153.78	.....	.....	35,385.04
68.39	.....	2,928.05	.....	2,996.44	.....
.....	3.26	1,460.77	.....	1,457.51	.....
12.96	.....	588.05	.....	601.01	.....
.....	34.60	3,442.89	.....	2,543.34	.....
.....	.....	82.70	.....	82.70	.....
.....	.....	274.40	.....	274.40	.....
16.61	.....	613.70	.....	1,168.46	.....
.....	285.40	4,866.00	.....	3,000.97	.....
.....	.....	16.08	.....	16.08	.....
133.28	1,924.87	23,363.90	300.82	15,107.24	35,683.35

†Adjustment of $122.99 in respect of Sinking Fund.
‡Adjustment of $5,555.57 in respect of Sinking Fund and debenture payments.

CENTRAL ONTARIO AND TRENT SYSTEM
(ALSO NIPISSING SYSTEM)

Reserve for Contingencies Account, October 31, 1924

Balance brought forward, October 31, 1923		$104,893.57
Added during the year ending October 31, 1924:		
By charges against operations	$40,055.60	
Sales of scrap materials	216.61	
Interest at 4% per annum on the monthly balances to the credit of the account	4,164.56	
		44,436.77
Balance carried forward, October 31, 1924		$149,330.34

APPROPRIATIONS, ADVANCES

AND

CAPITAL EXPENDITURES

FOR THE

YEAR ENDING OCTOBER 31, 1924

Appropriations made by the Legislature for the Purposes of the Commission, Cash Advances by the Province to the Commission on Account of such Appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such Cash Advances in the Year Ending October 31, 1924

Appropriations made by the Legislature for the purposes of the Commission, Cash Advances by the Province to the Commission on account of such appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such cash advances in the Year Ending October 31, 1924

SUMMARY STATEMENTS

NIAGARA SYSTEM

Appropriations by Legislature		$13,469,000.00	
Cash advances to the Commission out of such appropriations		$4,911,600.00	
Unexpended balance		690,400.90	
(Of which $617,611.78 has already been returned to the Province and $72,789.12 is returnable thereto.)			$4,221,199.10
Capital expenditure by the Commission as set out in detail in statements following:			
On right-of-way		$462,998.83	
On steel tower lines		476,400.43	
On wood pole lines		183,677.00	
On transformer stations		1,908,537.61	
On generating plant of Ontario Power Company		1,200,000.00	
On rural power districts		20,893.25	
On extensions to existing rural lines		8,391.65	
On local distributing systems		4,667.91	
		$4,265,566.68	
Less—Amount realized from:			
Sale of rural lines in Sandwich township	$24,163.27		
Sale of distribution system to North York township	20,121.15		
Equipment removed from Vaughan township feeder	83.16		
		44,367.58	
Total			$4,221,199.10

QUEENSTON-CHIPPAWA DEVELOPMENT

Appropriations by Legislature for existing development		$11,853,000.00	
Appropriations by Legislature to cover engineering investigations in respect of a second development		60,000.00	
		$11,913,000.00	
Cash advances to the Commission on account of such appropriations		$3,705,000.00	
Unexpended portion thereof returnable to the Province		12,226.23	
			$3,692,773.77
Capital expenditures by the Commission as set out in detail in statements following:			
On canal and units 1 to 5:			
Right-of-way	$37,312.12		
Generating station and equipment	67,314.01		
Construction—material and labour	557,992.00		
		$662,618.13	
On Units 6, 7 and 8:			
Generating station and equipment	$781,980.00		
Power house substructure, hydraulic machinery, penstocks, valves, turbines, intake works, river improvements and head works	1,915,581.34		
		2,697,561.34	
On Unit 9:			
Generating station and equipment	$32,306.19		
Power house substructure, hydraulic machinery, penstock, valves, turbines, intake works, river improvements and head works	174,082.26		
		206,388.45	
		$3,566,567.92	

Less—			
Amount charged to above construction work in 1924 in respect of materials, spare parts and supplies purchased and paid for prior to October 31, 1923	$454,123.55		
Amount realized from sale of construction plant and equipment	118,416.80		
Plant and equipment transferred to Niagara and other systems and capitalized thereon	53,092.07		
		$625,632.42	
		$2,940,935.50	
Engineering and superintendence		341,334.07	
Overhead expenses, including administrative, executive and accounting salaries and expenses, insurance and fire protection		245,627.54	
Interest during construction		145,828.96	
Engineering expenses securing information and preparation of data for the defence of suit B. F. Groat vs. Hydro-Electric Power Commission re alleged infringement of intake patents		3,990.86	
Engineering investigations in respect of a second development		15,056.84	
Total			$3,692,773.77

GEORGIAN BAY SYSTEM

Combining systems formerly known as Severn, Eugenia and Wasdells

Appropriations by Legislature		$1,062,000.00	
Cash advances to Commission out of such appropriations		$370,600.00	
Unexpended balance		67,367.44	
(Of which $46,311.12 has already been returned to the Province and $21,056.32 is returnable thereto.)			
			$303,232.56
Capital expenditure by the Commission as set out in detail in statements following:			
On power developments		$120,651.35	
On transmission lines		179,491.03	
On transformer stations		17,735.62	
		$317,878.00	
Less—rural power districts:			
Receipts in excess of expenditures	$8,934.32		
Less—Rural lines:			
Receipts in excess of expenditures	5,711.12		
		14,645.44	
Total			$303,232.56

MUSKOKA SYSTEM

Appropriations by Legislature		$424,900.00	
Cash advances to Commission out of such appropriations		$170,600.00	
Expended out of renewal and other reserve funds of the system		1,591.55	
			$172,191.55
Capital expenditure by the Commission as set out in detail in statement following:			
On power developments		$171,527.70	
On transformer stations		1,100.10	
		$172,627.80	
Less—transmission lines:			
Receipts in excess of expenditure		436.25	
Total			$172,191.55

ST. LAWRENCE SYSTEM

Appropriations by Legislature		$271,000.00	
Cash advances to Commission out of such appropriations		$12,000.00	
Unexpended balance		9,769.43	
(Already returned to the Province as part of a total of $28,446.72 from this system.)			$2,230.57
Capital expenditure by the Commission as set out in detail in statements following:			
On transformer stations		$7,339.91	
Less—Transmission lines:			
Receipts in excess of expenditures	$287.32		
Less—Rural power districts:			
Receipts in excess of expenditures	4,822.02	5,109.34	
Total			$2,230.57

RIDEAU SYSTEM

Appropriations by Legislature		$50,000.00	
Cash advances to Commission out of such appropriations		Nil	
Capital expenditure by the Commission as set out in detail in statement following:			
On transmission lines		$16.30	
Less—Transformer stations:			
Receipts in excess of expenditures	$17.73		
Less—Power developments:			
Receipts in excess of expenditures	1,164.38	1,182.11	
Excess of receipts over expenditures in the year			$1,165.81

THUNDER BAY SYSTEM

Appropriations by Legislature		$3,978,650.00	
Cash advances to Commission out of such appropriations		$2,495,000.00	
Unexpended portion thereof returnable to the Province		22,690.49	$2,472,309.51
Capital expenditure by the Commission as set out in detail in statements following:			
On generating plant		$1,528,652.90	
On transmission lines		850,932.02	
On transformer stations		92,724.59	
Total			$2,472,309.51

OTTAWA SYSTEM

Appropriations by Legislature		$30,000.00	
Cash advances to Commission out of such appropriations		$1,000.00	
Expended out of renewals and other reserve funds of the system		3,225.89	$4,225.89
Capital expenditure by the Commission as set out in detail in statements following:			
On transformer stations		$7.83	
On rural power districts		4,218.06	
Total			$4,225.89

NOTE—Returned to the Province by this system $26,125.76, which amount had previously been expended on rural power districts, but in the year 1924 was released by application of government grant.

CENTRAL ONTARIO AND NIPISSING SYSTEMS

Appropriations by Legislature, Central Ontario system	$2,636,000.00		
Nipissing system	381,850.00		
		$3,017,850.00	
Cash advances to Commission out of such appropriations		$1,814,000.00	
Unexpended balance		359,185.07	
(Of which $50,927.33 has already been returned to the Province, and $308,257.74 is returnable thereto.)			
			$1,454,814.93
Capital expenditure by the Commission as set out in detail in statements following:—			
On power development—Central Ontario system		$1,071,658.38	
On transformer stations—Central Ontario system		31,248.27	
On transmission lines—Central Ontario system		86,893.54	
On local utilities—Central Ontario system		118,034.74	
On pulp mill and Bruton limits—Central Ontario System		633.73	
On power development—Nipissing system		141,563.64	
On transmission lines—Nipissing system		1,891.96	
On local utilities—Nipissing system		8,100.07	
		$1,460,024.33	
Less:			
On transformer stations and service buildings, Nipissing system:—			
Equipment transferred in excess of expenditures	$1,742.84		
On rural districts—Central Ontario System:—			
Excess of receipts over expenditures	3,466.56		
		5,209.40	
Total			$1,454,814.93

MISCELLANEOUS

Appropriations by Legislature		$300,000.00	
Cash advances to Commission out of such appropriations		$10,000.00	
Unexpended balance thereof returnable to Province		601.61	
			$9,398.39
Capital expenditure by the Commission as set out in detail in statements following:—			
On service buildings and equipment		$3,874.07	
On office buildings and equipment		5,524.32	
Total			$9,398.39

EXPENDITURES ON ACCOUNT OF THE PROVINCE

Appropriations by Legislature		$196,612.80	
Cash advances to Commission out of such appropriations		$196,612.80	
Unexpended portion thereof returnable to the Province		77,680.03	
			$118,932.77
Expenditures by the Commission as set out in detail in the statement following.			$118,932.77

HYDRO-ELECTRIC RAILWAYS

Essex District

Cash in the hands of the Commission on October 31, 1923, being the unexpended balance of borrowings, $400,000 from the Bank of Montreal		$1,145.63	
Borrowings from the Bank of Montreal, in the year for the purposes of the railway		425,000.00	
		$426,145.63	
Used out of the reserve funds of the railway		869.77	
			$427,015.40
Capital expenditures by the Commission as set out in detail in statements following			$427,015.40

Guelph District

Cash in the hands of the Commission on October 31, 1923, being the unexpended balance of borrowings, $25,000 from the Bank of Montreal	$3,064.51	
Proceeds from the sale of $8,000 Hydro radial bonds	8,000.00	
	$11,064.51	
Cash in the hands of the Commission on October 31, 1924	17,458.12	
		$6,393.61
Excess of receipts over expenditures in the fiscal year		$6,393.61

Toronto and York District

Borrowings from the Bank of Montreal for the purposes of the railway		$650,000.00	
Less:			
Cash in the hands of the Commission on October 31, 1924	$83,703.43		
Funds employed as working capital	337,674.98		
		421,378.41	
			$228,621.59
Capital expenditures by the Commission, as set out in detail on statements following			$228,621.59

Port Credit to St. Catharines Line

Cash in the hands of the Commission on October 31, 1923, being the unexpended balance of borrowings, $500,000 from the Bank of Montreal	$138,319.56	
Less:		
Cash in the hands of the Commission—belonging to the railway—on October 31, 1924	134,111.72	
		$4,207.84
Capital expenditures by the Commission, as set out in detail on statements following		$4,207.84

Toronto to Port Credit Line

Receipts in excess of expenditures, as set out in detail in statements following	$230,192.47

DETAILED STATEMENTS

NIAGARA SYSTEM

Capital Expenditures in the Fiscal Year Ending October 31, 1924

Upon right-of-way		$462,998.83	
Upon steel tower lines		476,400.43	
Upon wood pole lines		183,677.00	
Upon transformer stations		1,908,537.61	
Upon generating plant of Ontario Power Company		1,200,000.00	
Upon rural power districts		20,893.25	
Upon extension to existing rural lines		8,391.65	
Upon local distributing systems		4,667.91	
		$4,265,566.68	
Less—Amount realized from:			
Sale of rural lines in Sandwich township	$24,163.27		
Sale of distribution system of North York township	20,121.15		
Equipment removed from Vaughan township feeder	83.16		
		44,367.58	
			$4,221,199.10

RIGHT-OF-WAY

York station to Strachan Avenue station	$465,575.53	
York station to Etobicoke station	636.41	
York station to Davenport station	146.26	
Dundas station to York station	157.32	
St. Thomas station to St. Clair avenue station	2,546.71	
Saltfleet junction to Hamilton station	1,046.48	
Forebay structure, Queenston, to Niagara-Dundas line	31,067.32	
		$501,176.03
Less—Amount realized from sale and transfer of right-of-way:		
Niagara to Dundas	$2,100.00	
Dundas to Toronto	157.32	
Forebay to Saltfleet	23,692.41	
Saltfleet to Nelson	12,227.47	
		38,177.20
		$462,998.83

NOTE—In the year the following transfers were made as between capital accounts, no expenditure involved:

From Ontario Power Company	$310,016.10
From Toronto Power Company	4,033,071.98
From transmission lines	83,709.51
	$4,426,797.59

TRANSMISSION LINES—STEEL-TOWER LINES

On Queenston-Hamilton-Toronto lines:		
Queenston generating station to Forebay structure—1 circuit for unit No. 9	$5,572.27	
Queenston to Welland Canal—110,000-volt double-circuit	45,619.36	
Stoney Creek to Nelson junction—110,000-volt line	222,500.02	
Dundas to York station—double-circuit aluminum cable	46,823.93	
York to Toronto—110,000-volt line	67,867.02	
York to Davenport station	27,028.98	
		$415,411.58
On St. Thomas to St. Clair station—110,000-volt wood-pole line		66,064.76
Construction of telephone lines between generating plants of Ontario Power Company, Electrical Development Company and Queenston-Chippawa development		2,632.44
Extensions to and additional equipment on existing lines:		
Preston to Kitchener	$245.03	
Woodstock to London	332.21	
Queenston generation station to forebay structures	505.83	
Queenston to St. Thomas	416.79	
Queenston to Saltfleet	2,945.57	
Queenston to Allanburg	1,199.83	
Nelson junction to Cooksville	364.50	
Dundas to Toronto	1,196.48	
	$7,206.24	
Preliminary engineering and studies of high-voltage lines	5,551.61	
Engineering expenses in connection with purchase of galvanized towers, insulators and aluminum	787.05	
		13,544.90
		$497,653.68

Less—Value of equipment transferred from the following sections to other lines, and capitalized thereon:			
Niagara to Dundas	$20.30		
Dundas to Nelson junction	29.34		
Kitchener to Stratford	85.60		
Cooksville to York	89.32		
York to Islington junction	615.11		
Toronto Power Company station to Ontario Power Company, forebay	3,279.50		
Saltfleet junction to Hamilton	11.72		
All sections—removal of old grounding conductor	16,823.86		
Telephone line to Oakwood Avenue, Toronto	294.91		
Forebay at Queenston to Niagara station, structure	3.59		
		$21,253.25	
Total expenditure in year on steel-tower lines			$476,400.43

Wood-Pole Lines

Construction of new lines:			
St. Catharines to Port Dalhousie feeder	$415.68		
Merritton to St. Catharines	6,094.98		
Whirlpool sub-station to Niagara-on-the-Lake	8,027.53		
Lythmore to Decewsville	8,088.84		
Hagersville to Jarvis	10,210.23		
Decewsville to Cayuga	3,616.50		
Junction pole to Waterdown	1,178.02		
Bond Lake to Kettleby	1,224.59		
Canada Wire and Cable Company junction to Canadian National Railway junction, Leaside	2,342.30		
Eglinton junction to York Mills	14,548.04		
Langstaff junction to Bond Lake	275.62		
Sedore junction to Sutton	1,703.89		
Switching at junction, Leaside	1,523.02		
London station to junction pole No. 38	724.49		
Broughdale to Oxford Park	71.55		
Junction pole to Broughdale	4,960.50		
Harriston to Clifford	8,473.24		
Walton to Brussels	5,968.78		
Walton to Blyth	9,614.62		
Seaforth junction to Walton	17,804.77		
Sebringville junction to Harriston	5,164.85		
Aylmer to Springfield	570.06		
Blenheim to Erieau	5,927.51		
Sarnia to Courtright	1,671.59		
Dominion Petroleum Company line	4,699.06		
Essex to Walkerville	26,609.52		
Junction pole to Windsor	194.01		
Junction pole to Sandwich	6,092.70		
Tap on Belle River line to Essex	27,400.05		
Junction pole to Mimico	686.90		
Niagara station to Norton Company	4,013.05		
Essex station to Kingsville	3,073.79		
		$192,970.28	
Extensions to and additional equipment on existing lines:			
London to junction pole	$102.69		
Guelph station to Guelph	321.66		
Guelph station to junction pole	1.90		
Junction pole to Elora	5.70		
Preston station to junction pole	199.83		
Preston station to Guelph, Preston and Hespeler Railway	4.75		
Hespeler to Christie-Henderson Company	38.48		
Junction pole to Galt	191.02		
St. Jacobs to Elmira	10.00		
Junction pole to Kitchener	2.85		

Junction pole to Waterloo	$3.80	
Stratford to Sebringville junction	909.56	
Pole No. 1657 to Palmerston	632.44	
Junction pole to Moorefield	5.49	
Junction pole to Drayton	5.50	
Woodstock station to junction pole No. 76 on Beachville line	165.26	
Woodstock station to junction pole No. 508 on Tillsonburg line	557.86	
Junction pole No. 76 to junction pole No. 289 on Beachville—Ingersoll line	428.68	
Junction pole No. 289 to junction pole No. 324 on Embro line	93.58	
Junction pole No. 508 to Tillsonburg	536.06	
Junction pole No. 508 to Norwich	83.54	
Junction pole No. 324 to Ingersoll	395.66	
Aylmer junction to Port Stanley	94.43	
Junction pole to Aylmer—replacing ¼-inch steel with 1/0 aluminum	6,892.36	
Ayr station to H.O. Cereal Company	50.28	
Junction pole to Paris	158.55	
Junction pole to Port Credit	68.83	
Junction pole to Shale Brick Company	20.79	
Junction pole No. 89 to junction pole No. 230 on Brampton line	1.90	
Junction pole No. 230 to junction pole No. 381 on Milton line	1.90	
Forest to Thedford	134.46	
Forest to Merlin	6.10	
Fletcher to Merlin	1.66	
Junction pole No. 795 to junction pole No. 1445A on Brigden-Oil Springs line	37.60	
Perch junction to Perch	8.60	
Junction to Fletcher	11.56	
Essex station to junction pole No. 55	382.71	
Essex station to Belle river	75.77	
Essex station to Puce junction—replacing 5/16-inch steel with 1/0 aluminum	5,396.39	
York station to junction pole No. 564, Weston line	61.07	
York station to junction pole No. 122 on Etobicoke line	1.90	
York station to Mimico	58.34	
Etobicoke to junction pole No. 12	1.09	
Woodbridge to Bolton	224.83	
Junction pole to Weston	18.83	
Junction pole to Woodbridge	71.97	
Junction pole to Etobicoke	4.27	
Mimico junction to junction pole No. 122	12.49	
Whirlpool sub-station to Queenston	764.25	
Ontario Power Company transformer station to river crossing near Queenston—re-insulation of No. 2—60,000 volt line	11,454.11	
Ontario Power Company transformer station to Niagara Falls waterworks	4,030.88	
St. Catharines lines	4,649.31	
St. Davids to Queenston	1,760.00	
Beamsville to Grimsby	9.14	
Line to Growers' Cold Storage Co., Grimsby	10.36	
Niagara to Fonthill	794.00	
Niagara to Oxley	794.00	
Toronto to Bathurst arrester station	802.75	
Bathurst arrester station to Eglinton Avenue junction	167.86	
Kipling Avenue junction to Goodyear Tire Company	418.27	
Junction pole No. 631 to Canard River station	418.85	
Canard River to junction pole No. 642	416.85	
Leamington to Wheatley	9,531.35	
		$54,516.97
		$247,487.25

Less—Value of equipment transferred to other lines and capitalized thereon from the following:		
Jordan to Beamsville	$3.66	
Toronto limits to York Township limits	505.32	
Keswick to Sedore	1,593.71	
Mount Joy to Stouffville	687.89	
York Township to Unionville	768.15	
Junction to Markham	55.50	
Junction to Mount Joy	13.97	
Junction pole to Dorchester	108.16	
Junction pole No. 155 to junction pole No. 453 on Rockwood line	9.21	
Junction pole No. 1005 to Cheltenham	14.71	
Kitchener to junction pole No. 9	347.82	
Stratford to Goderich	4,138.39	
Dublin to junction pole No. 1153	386.05	
Junction pole No. 647 to Dublin	740.80	
Junction pole No. 1153 to Seaforth	3.00	
Junction pole No. 1153 to junction pole No. 1550 on Clinton-Goderich line	1,164.71	
Junction pole No. 1550 to Clinton	276.85	
Junction pole No. 1550 to Goderich	2,209.00	
Sebringville to junction pole No. 647	369.39	
Junction pole No. 311 to junction pole No. 802 on Milverton line	999.78	
Junction pole No. 802 to junction pole No. 1314 on Listowel line	843.72	
Junction pole No. 1314 to junction pole No. 1657 on Harriston line	552.12	
Junction pole No. 1657 to junction pole No. 1687 on Harriston line	52.14	
Junction pole No. 1726 to Palmerston	27.84	
Junction pole No. 1726 to Harriston	402.30	
Junction pole No. 1687 to junction pole No. 1726 on Harriston line	55.97	
St. Thomas station to St. Thomas	2,981.22	
Aylmer junction to Aylmer station	2,115.88	
Milton to Streetsville—replacing insulators	1,655.56	
Junction pole No. 230 to junction pole No. 381 on Milton line	244.04	
Junction pole No. 381 to Milton	980.20	
Junction pole No. 381 to Streetsville	40.64	
Perch junction to Sarnia	629.63	
Junction pole to Walkerville	274.07	
York station to junction pole No. 122 on Mimico line	505.33	
Port Dalhousie lines	643.00	
Junction pole to Waterdown	130.63	
Etobicoke to York	67.89	
Plattsville junction to Wolverton	1,851.21	
Line to Reid & Son, Streetsville	841.40	
Port Colborne to Canada Cork Company station	20.03	
Oxley to Toronto	1,345.64	
Eglinton junction to York Mills	10,935.47	
Goodyear Tire Company to Lake Shore Road terminus	955.93	
Junction pole No. 1412 to Leamington	109.26	
Junction pole No. 1605 to Essex	31.57	
Essex to junction pole No. 231	507.81	
Canard River to Sandwich, Windsor and Amherstburg railway	20.78	
		$43,217.35
		$204,269.90
Less amount written off the Essex County lines		20,592.90
Total expenditure in year on wood-pole lines		$183,677.00

NOTE—In the year the following transfers were made as between Capital Accounts—no cash expenditure involved:		
To transmission lines:		
From transformer stations—underground cables at Niagara Falls		$485,355.22
From Ontario Power Company		1,180,844.84
From Toronto Power Company		2,769,896.75
From Essex County system		107,465.00
		$4,543,561.81
From transmission lines:		
To right-of-way	$83,709.51	
To rural power districts	12.92	
To transformer stations	8,384.05	
		92,106.48
		$4,451,455.33

TRANSFORMER STATIONS—HIGH TENSION

Niagara Station:	
Barrier walls around breakers and arresters	51.66
Six electric heaters	273.36
Dundas Station:	
Seven 75-kv-a. potential transformers and oil breaker changes	30,823.17
Toronto Station:	
Installation of two banks of 5,000-kv-a. transformers at Bridgeman Avenue	306,380.51
Installation of three banks of 5,000-kv-a. transformers at Wiltshire Avenue	339,138.59
Grading and seeding at Strachan Avenue; guided wire radio broadcasting and receiving set	21,940.48
Changes in totalizing and graphic meters	1,335.92
London Station:	
Barrier walls, telephone panels, guided wire radio set	6,603.54
Mechanical brake for synchronous condenser	167.43
Kitchener Station:	
Replacing three 1,250-kv-a. and one 2,500-kv-a. transformers with three 5,000-kv-a. transformers and one spare 5,000-kv-a.	122,481.92
Stratford Station:	
Emergency breaker installation and 26,400-volt current transformer changes	8,499.28
St. Thomas Station:	
Increased transformer capacity and barrier walls	1,658.12
Brant Station:	
Installation of four 5,000-kv-a. transformers and switching equipment for two feeders	181,556.95
Cooksville Station:	
New doorway for station	533.23
Kent Station:	
Replacing three 1,250-kv-a. transformers with 2,500-kv-a.	47,603.86
Essex Station:	
Installation of four 5,000-kv-a. transformers and guided wire radio set	9,642.55
York Station:	
Replacing switching equipment and erection of two operators' cottages	28,200.20
Hamilton Station:	
Completing new station, additional feeder capacity and erection of two operators' cottages	36,678.20
St. Clair Station:	
Preliminary expenditure re construction of new station	3.121.68

Queenston Station:		
Transformation equipment for units 1 to 5...	$110,117.43	
Transformation equipment for units 6 to 8...	783,723.40	
Replacing entrance bushings for units 1 to 5..	9,486.89	
Reserve Equipment:		
One 750-kv-a. transformer	75.58	
Seven 3,000-kv-a. transformers	74,275.96	
Three 1,250-kv-a. transformers, and eight current transformers	18,097.00	
Nine 5,000-kv-a. transformers	11,596.67	
Three 1,250-kv-a. transformers	181.65	
One motor generator set	1,896.69	
Twelve oil breakers	1,431.99	
		$2,157,573.91
Less—Equipment transferred to other stations and capitalized thereon:		
From Niagara	$24,883.39	
From Dundas	15,005.37	
From Toronto	9,152.02	
From Guelph	432.57	
From Preston	740.08	
From Kitchener	53,661.05	
From Stratford	2,201.41	
From St. Marys	1,598.43	
From Woodstock	460.07	
From Brant	7,640.09	
From Cooksville	462.92	
From Kent	21,455.35	
From Essex	1,326.40	
From Niagara (Ontario Power Company Station)	3,075.33	
From Niagara (Electrical Development Company Station)	1,965.65	
From reserve equipment	282,337.27	
		426,397.40
		$1,731,176.51
Preliminary engineering in connection with steam generating plant on Niagara System		1,372.90
		$1,732,549.41

TRANSFORMER STATIONS—LOW TENSION

Purchase and installation of Electrical and Metering equipment for the following new stations:	
Welland rural power district station	$1,083.02
Stamford rural power district station	463.91
Dundas rural power district station	245.82
Barton rural power district station	430.41
Scarboro rural power district station	23.04
London rural power district station	4,848.58
Stratford rural power district station	243.06
Tillsonburg rural power district station	412.36
St. Thomas rural power district station	718.27
Brant rural power district station	475.25
Sarnia rural power district station	21.71
Sandwich rural power district station	490.86
Saltfleet rural power district station	2,102.31
Merritton station	841.77
Lincoln station	11,029.61
St. Davids station	4,433.09
Queenston village station	175.56
Canadian Niagara Power Company station	554.61
Port Colborne station	1,259.85
Waterdown station	3,388.40
Caledonia station	899.81
Hagersville station	1,699.58
Cayuga station	796.64
Decewsville station	5,293.13

Richmond Hill station	$6.95	
Broughdale station	12,039.62	
Hespeler station (Christie-Henderson)	15.19	
Walton station	6,623.56	
Norfolk station	960.68	
Lakeview station	338.65	
Glencoe station	605.84	
Merlin station	518.00	
Fletcher station	853.00	
Courtright station	480.87	
Dominion Petroleum Company station	157.37	
Point Edward station	739.64	
Erieau station	236.50	
Sandwich station	9,307.42	
Windsor converter station	97.94	
Bolton station	35.01	
		$74,946.89
Extensions to and additional equipment installed in existing distributing stations:		
Walton	$1.74	
Beachville	.41	
Ayr	729.00	
Wolverton	1,851.21	
Streetsville	841.40	
Sandwich	10.00	
Preston rural	5.00	
Welland	122.67	
Niagara Falls	175.00	
Chippawa village	.80	
Beamsville	160.46	
Dundas	118.69	
Lynden	100.68	
Waterdown (Dominion Sewer Pipe Company)	94.60	
Blantyre	280.47	
Humber	492.11	
York Mills	1,351.57	
Bond Lake	7,407.30	
Schomberg and Aurora	364.32	
Newmarket	1,286.46	
Sedore	467.66	
Scarboro	192.65	
Delaware	270.12	
Strathroy	10.00	
Dorchester	73.95	
Lucan	73.95	
Ailsa Craig	73.90	
Elora	86.34	
Fergus	86.34	
Acton	1,220.61	
Georgetown	147.30	
Waterloo	10.00	
St. Jacobs	3,064.24	
Elmira	384.18	
Baden	894.81	
New Hamburg	1,840.37	
Tavistock	462.50	
Dublin	73.50	
Clinton	10.00	
Goderich	152.45	
Milverton	73.50	
Palmerston	423.71	
Harriston	691.23	
Moorefield	142.64	
Drayton	367.63	
Embro	74.51	
Beachville	283.20	
Norwich	177.60	
Otterville	19.98	
Tillsonburg	74.42	
St. Thomas (London and Port Stanley Railway)	325.53	

Dutton	$73.50	
West Lorne	72.97	
Port Stanley	73.94	
Aylmer	139.42	
Brantford (Lake Erie and Northern Railway)	1.95	
Brant (step-down equipment)	530.72	
Burford	73.87	
Waterford	76.22	
Simcoe	41.00	
Paris	77.25	
Ayr	73.87	
Drumbo	74.41	
Plattsville	187.01	
Port Credit	84.01	
Milton	220.14	
Streetsville	60.11	
Streetsville (Reddick meters)	23.90	
Streetsville (Lumber Company meters)	12.00	
Tilbury	811.43	
Blenheim	4,362.08	
Thamesville	73.94	
Bothwell	73.94	
Wallaceburg	9,600.48	
Oil Springs	71.93	
Brigden	74.00	
Petrolia	72.98	
Forest	230.53	
Watford	192.16	
Sarnia	246.79	
Perch	110.32	
Etobicoke	407.92	
Weston	102.44	
Woodbridge	6,412.68	
Etobicoke Township	7,037.08	
Mimico	1,331.71	
Thorold	10,025.43	
Queen Victoria Park	239.92	
Canada Steel Foundries	282.91	
Chippawa (Norton Company)	446.13	
Port Colborne (Canada Cement Company)	272.52	
Toronto (Keele Street)	52.31	
Islington	95.75	
Leaside (Canada Wire & Cable Company)	36.54	
Leaside (Canadian National Railway)	1,212.71	
Kingsville	7,985.99	
Leamington	1,051.04	
Essex	282.36	
Wheatley	681.09	
Reserve equipment	85,068.70	
		$168,484.81
		$1,975,981.11
Less—Value of equipment transferred to other stations and capitalized thereon from the following:		
Caledonia	$74.00	
Hagersville	37.00	
Scarboro	171.34	
Mount Joy	110.83	
Blantyre	200.00	
Humber	4,930.00	
York Mills	185.00	
Bond Lake	217.50	
Newmarket	1,650.00	
Keswick	535.83	
St. Jacobs	2,405.50	
Elmira	74.50	
Preston	72.00	
Baden	330.70	
Goderich	63.00	
Moorefield	422.00	

Drayton	$363.86	
Drumbo	729.00	
Cheltenham	4,669.03	
Brant	2,412.59	
Milton	141.00	
Tilbury	731.10	
Blenheim	2,159.00	
Wallaceburg	3,603.08	
Watford	133.26	
Etobicoke	5,528.56	
Erindale	61.00	
Saltfleet	121.64	
Waterdown (Dominion Sewer Pipe Company)	4,770.25	
Hagersville	140.00	
York and Scarboro	6.44	
Delaware	1,522.00	
Breslau	1,065.74	
Acton	168.90	
New Hamburg	90.00	
Listowel	140.50	
Palmerston	156.00	
St. Marys (Portland Cement Company)	2,964.33	
Norwich	226.50	
St. George	115.00	
Ridgetown	58.96	
Fletcher	1,171.77	
Mimico	4,067.91	
St. Catharines	67.92	
Woodbridge	261.40	
Chippawa	1,600.00	
St. Catharines	1,445.11	
Merritton	887.06	
Niagara Falls (American Cyanamid Company)	21.47	
Port Colborne	778.30	
Port Colborne (Canada Cork Company)	2,482.37	
Niagara Falls (Abrasive Company)	902.00	
New Toronto (Goodyear Tire Company)	418.27	
Thorold (Beaverboard Company)	194.84	
Canard River	3,375.67	
Amherstburg	268.86	
Reserve equipment	5,943.61	
		$67,443.50
Total expenditure in year on transformer stations		$1,908,537.61

NOTE—In the year the following transfers were made as between capital account—no cash expenditure involved.

To transformer stations:		
From Essex County system	$80,088.07	
From Thorold system	102,094.82	
From Ontario Power Company	2,108,220.99	
From Toronto Power Company	2,029,645.55	
		$4,320,049.43
From transformer stations:		
To transmission lines	476,971.17	
		$3,843,078.26

GENERATING PLANT OF ONTARIO POWER COMPANY

Paid to Bank of Montreal, Toronto, to retire loan previously obtained to pay in part the cost of constructing the Third Pipe Line to the works of the Ontario Power Company	$1,200,000.00

RURAL POWER DISTRICTS

Niagara:	
18.25 miles of lines to serve 50 consumers in Niagara township	$28,954.93
Secondary circuits to serve additional consumers	692.40
Grantham:	
1 mile of line to serve 25 consumers in Grantham township	4,351.08
Secondary circuits to serve additional consumers	149.10
Jordan:	
0.17 miles of line to serve 1 consumer in Louth township	380.00
0.12 miles of line to serve 1 consumer in Louth township	118.15
Secondary circuits to serve additional consumers	217.54
Beamsville:	
4.75 miles of line to serve 7 consumers in Clinton township	6,220.82
1.25 miles of line to serve 5 consumers in Louth township	1,167.57
0.25 miles of line to serve 1 consumer in Clinton township	369.14
3 miles primary from Grimsby sub-station to Beamsville rural	1,096.02
2-1/3 miles of lines to serve 10 consumers in Louth township	3,668.08
Conversion of line serving Dominion Canners and the Arkona Basket Works from 1 phase to 3 phase	1,510.67
Cost of office and stores building in Beamsville	3,307.56
Secondary circuits to supply additional consumers	4,954.65
Welland:	
0.13 miles of line to serve 1 consumer in Crowland township	1,357.54
3 miles of line to serve approximately 900 consumers in Welland district	33,336.00
0.25 miles of line to serve 9 consumers in village of Port Robinson	7.56
Cost of distribution system in Port Robinson and Welland South, purchased from Welland Hydro-Electric System	11,546.01
Cost of rural lines in Welland rural power district purchased from Welland Electric Company	34,081.71
Secondary circuits to supply additional consumers	1,576.50
Stamford:	
Secondary circuits to supply additional consumers	1,299.15
Chippawa:	
Secondary circuits to supply additional consumers	141.50
Dundas:	
0.8 miles of primary line and purchase of 1.5 miles from Dundas, also changing existing primary line from 2,200 to 4,000 volts in townships of West Flamboro and Beverley	4,543.12
1/3 mile of line to serve 1 consumer in Ancaster township	208.76
Secondary circuits to supply additional consumers	727.49
Lynden:	
12 miles underground line to serve 48 consumers in Beverley township	10,087.88
1/3 mile underground line to serve 1 consumer in Beverley township	7.03

0.07 miles underground line to serve 1 consumer in Ancaster township	$244.16
Secondary circuits to supply additional consumers	59.16
Waterdown:	
Changing existing primary from 2,200 to 4,000 volts in East Flamboro township, also cost of 4,000-volt circuit from junction pole to Waterdown station	3,117.73
0.8 miles of line to serve 17 consumers in East Flamboro township	3,350.43
Secondary circuits to supply additional consumers	310.16
Barton:	
3.85 miles of line to serve 35 consumers in Barton and Glanford townships	8,692.82
2.4 miles of line to serve 8 consumers in Barton, Glanford and Ancaster townships	36.55
Secondary circuits to supply additional consumers	39.43
Markham:	
Secondary circuits to supply additional consumers	740.25
Scarboro:	
3.28 miles of lines to serve 18 consumers in Scarboro township	1,831.40
0.6 miles of line to serve 8 consumers in Scarboro township	1,667.32
0.25 miles of line to serve 1 consumer in Scarboro township	329.16
Secondary circuits to supply additional consumers	477.64
Bond Lake:	
Repayment of deposits on lines to former customers of Toronto and York Radial railways in townships of King, Vaughan, Markham and Whitchurch	629.15
5.27 miles of lines to serve 57 consumers in village of Schomberg	10,095.24
3 miles of lines to serve 41 consumers in King township	7,084.48
Secondary circuits to supply additional consumers	3,359.88
Newmarket:	
Repayment of deposits on lines to former customers of Toronto and York Radial railways in townships of Whitchurch and King	131.77
Secondary circuits to supply additional consumers	43.61
Keswick:	
Repayment of deposits on lines to former customers of Toronto and York Radial railways in North Gwillimbury township	182.33
1.4 miles of lines to serve 18 consumers in Georgina township	2,838.71
0.8 miles of line to serve 6 consumers in North Gwillimbury township	1,579.38
Secondary circuits to supply additional consumers	3,019.01
Mount Joy:	
Secondary circuits to supply additional consumers	925.93
Lansing:	
0.33 miles of lines to serve 2 consumers in Vaughan township	621.68
Repayment of deposits on lines to former customers of Toronto and York Radial railways in townships of Vaughan and Markham	278.65

1.45 miles of lines to serve 8 consumers in North York township	$2,714.64
0.7 miles of line to serve 2 consumers in Vaughan township	788.43
1 mile of line to serve 14 consumers in Markham township	1,949.17
0.45 miles of line to serve 13 consumers in North York township	32.42
2 miles of lines to serve 2 consumers in North York township	3,007.56
Secondary circuits to supply additional consumers	1,283.43
Dorchester:	
0.45 miles of lines to serve 1 consumer in North Dorchester township	62.06
1.44 miles of lines to serve 5 consumers in North Dorchester township	2,496.59
1.5 miles of lines to serve 5 consumers in North Dorchester township	39.90
1.5 miles of primary lines changed to 3 phase to serve Dorchester Humus Company	142.97
Secondary circuits to supply additional consumers	914.02
London:	
22.95 miles of lines to serve 121 consumers in Westminster and London townships	18,224.28
6.59 miles of lines to serve 32 consumers in London township	174.56
0.33 miles of lines to serve 4 consumers in London township	758 51
0.8 miles of lines to serve 2 consumers in Westminster township	963.13
0.25 miles of line to serve 1 consumer in Westminster township	409.96
0.95 miles of line to serve the Western University, London township	1,002.72
8.86 miles of primary line and purchase of 7.17 miles of lines from London Public Utilities Commission	17,109.62
Purchase of lines from London Public Utilities Commission situated south of Thames River, including Byron and to Westminster Hospital	24,560.98
1 mile of line to serve 6 consumers in Westminster township	56.61
0.47 miles of line to serve 3 consumers in Westminster township	16.90
2.9 miles of lines to serve 9 consumers in Westminster township	129.01
0.65 miles of line to serve 2 consumers in London township	160.90
Purchase of lines outside London City limits from London Public Utilities Commission and construction of 3.90 miles of primary lines	5,192.13
0.55 miles of line for one special contract in London township	8.52
Secondary circuits to supply additional consumers	5,475.66
Delaware:	
8.4 miles of lines to serve 62 consumers in Lobo and London townships	581.22
0.25 miles of lines to serve 1 consumer in Ekfrid township	246.17
Secondary circuits to supply additional consumers	502.53
Exeter:	
Secondary circuits to supply additional consumers	501.28

Georgetown:	
Secondary circuits to supply additional consumers	$6,108.91
Preston:	
4.38 miles of lines to serve 17 consumers in Waterloo township	4,110.94
0.9 miles of line to serve 4 consumers in Waterloo township	296.33
Secondary circuits to supply additional consumers	1,610.01
Galt:	
Secondary circuits to supply additional consumers	645.43
St. Jacobs:	
10.25 miles of lines to serve 77 consumers in Woolwich and Wellesley townships	18,126.03
6 miles of lines to serve 40 consumers in Woolwich and Wellesley townships	9,245.24
0.65 miles of lines to serve 4 consumers in village of St. Jacobs	618.62
Secondary circuits to supply additional consumers	745.93
Tavistock:	
Secondary circuits to supply additional consumers	99.93
Walton:	
2/5 miles of line to serve 15 consumers in Morris, Grey and McKillop townships	1,517.96
Secondary circuits to supply additional consumers	34.08
Stratford:	
Changing 2,000-volt feeder to 4,000 volts, Stratford to Sebringville	103.15
Purchase of equipment from Stratford Public Utilities Commission to supply consumers in Sebringville	4,090.42
Secondary circuits to supply additional consumers	49.93
Woodstock:	
Purchase of equipment from Woodstock Public Utilities Commission to serve consumers in Blandford township	648.37
Secondary circuits to supply additional consumers	521.15
Tillsonburg:	
6.5 miles of line to serve 44 consumers in Middleton township	4,739.76
Secondary circuits to supply additional consumers	59.40
St. Thomas:	
26 miles of lines to serve 162 consumers in Yarmouth and Southwold townships	13,391.03
0.5 miles of lines to serve 1 consumer in Yarmouth township	447.61
Secondary circuits to supply additional consumers	3,411.90
Aylmer:	
5.5 miles of lines to serve 24 consumers in Yarmouth and Malahide townships	4,858.24
0.6 miles of lines to serve 16 consumers in South Dorchester and Malahide townships	58.92
Secondary circuits to supply additional consumers	261.45
Brant:	
1.13 miles of lines to serve 4 consumers in South Dumfries township	1,349.26
Secondary circuits to supply additional consumers	883.22
Waterford:	
Secondary circuits to supply additional consumers	169.28

Drumbo:	
Secondary circuits to supply additional consumers	$109.40
Simcoe:	
Secondary circuits to supply additional consumers	119.97
Streetsville:	
Secondary circuits to supply additional consumers	32.44
Brampton:	
1-2/5 miles of line to serve 4 consumers in Chinguacousy and Toronto townships	337.97
Chatham:	
1.5 miles of lines to serve 31 consumers in Dover township	1,168.44
3.5 miles of lines to serve 11 consumers in Dover township	1,009.68
Secondary circuits to supply additional consumers	438.96
Ridgetown:	
Secondary circuits to supply additional consumers	748.36
Blenheim:	
8 miles of lines to serve 39 consumers in Harwich township	7,107.86
1 mile of line to serve 4 consumers in Raleigh township	589.72
Secondary circuits to supply additional consumers	39.19
Sarnia:	
2½ miles of lines to serve 12 consumers in Sarnia township	1,517.05
¾ miles of line to serve 25 consumers in Moore township	3,225.41
1¼ miles of line to serve 14 consumers in Sarnia township	1,699.90
Secondary circuits to supply additional consumers	1,173.28
Petrolia:	
¼ mile of line to serve 3 consumers in Sarnia township	384.08
Bothwell:	
½ mile of lines to serve 10 consumers in Ekfrid and Mosa townships	553.21
Secondary circuits to supply additional consumers	6.00
Wallaceburg:	
16 miles of lines to serve 98 consumers in Sombra and Chatham townships	10,726.15
Secondary circuits to supply additional consumers	906.23
Tilbury:	
1/10 mile of secondary line to serve 5 consumers in North Tilbury township	116.75
Sandwich:	
0.78 miles of lines to serve 4 consumers in West Sandwich township	1,384.03
0.36 miles of lines to serve 11 consumers in West Sandwich township	524.03
3 miles of lines to serve 3 consumers in West Sandwich township	2,096.50
2-1/3 miles of lines to serve 10 consumers in South Sandwich township	3,008.78
Changing Canard River system over to supply West Sandwich township	696.68
Purchase of lines from Windsor Hydro-Electric system to form part of Sandwich rural power district	28,362.18
Stringing 6 spans of primary to serve 5 consumers in West Sandwich township	470.01

½ mile of lines to serve 3 consumers in West Sandwich township	$1,380.28		
7½ miles of lines to serve 135 consumers in East Sandwich township	6,055.48		
Cost of garage and storehouse	231.00		
1 mile of lines to serve 12 consumers in East Sandwich township	20.24		
Secondary circuits to supply additional consumers	3,728.87		
Secondary circuits in Canard River system	41.28		
Belle River:			
Secondary circuits in Canard River system	1,674.76		
Woodbridge:			
Purchase of secondary lines in Vaughan township from the village of Bolton	4,006.79		
1.85 miles of lines to serve 18 consumers in Vaughan township	2,536.17		
0.19 miles of line to serve 3 consumers in Vaughan township	25.12		
Secondary circuits to supply additional consumers	364.31		
Bolton:			
1.15 miles of lines to serve Fresh Air Camp	1,556.35		
Saltfleet:			
0.2 miles of lines to serve 3 consumers in Saltfleet township	1,162.08		
Secondary circuits to supply additional consumers	5,515.66		
Amherstburg:			
2 miles of single phase lines to supply 29 rural consumers	3,713.66		
Changes in rural feeder and addition of new single phase feeder from sub-station to River Road	1,554.60		
2-2/3 miles of line to serve 28 rural consumers	5,855.45		
Secondary circuits to supply additional services	379.55		
Harrow:			
Secondary circuits to supply additional services	186.92		
Kingsville:			
0.25 miles of lines to supply 11 rural consumers in the Jordan subdivision south of Kingsville	604.47		
1.25 miles of line in township of Gosfield to serve 19 rural consumers	2,035.94		
Secondary circuits to supply additional services	1,287.78		
Leamington:			
Secondary circuits to supply additional services	3,272.00		
		$491,213.39	
Less—Value of equipment transferred to other lines and districts, and capitalized thereon:			
Baden rural power district	$114.65		
Bond Lake rural power district	151.43		
Tavistock rural power district	252.27		
Norwich rural power district	1.84		
Brant rural power district	230.11		
Wallaceburg rural power district	842.83		
Sandwich rural power district	2,056.93		
		3,650.06	
		$487,563.33	
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50% of the cost of primary lines constructed in the year and 50% of the cost of practically all secondary lines constructed prior to 31st October, 1924		466,670.08	
Total expenditure in the year on rural power districts			$20,893.25

NOTE—The following transfers were made in the year as between capital accounts—no cash expenditure involved:			
To rural power districts—			
From transmission lines	$12.92		
From local distributing systems	59,712.28		
From rural lines	17,648.65		
From Essex County system	35,700.51		
	$113,074.36		

EXTENSION TO EXISTING RURAL LINES

East Flamboro Township:			
Plains road line	$1,143.88		
Service to Burlington Golf Club	185.03		
Nassagaweya Township:			
Feeder line from Milton sub-station to Canadian Pacific Railway pumping station, Guelph Junction	6,567.02		
Feeder line to Christie Henderson and Robertson Lime Companies extension	10.69		
Grantham Township:			
Cost of changing voltage from 2,000-volt to 4,000 volt	17.02		
Etobicoke Township:			
Extensions to lines served by York township	183.00		
Norwich Township:			
Extensions to existing lines	285.01		
		$8,391.65	
Less—Cost of lines sold as follows:			
Sandwich and Windsor lines sold to Sandwich	$19,561.44		
Sandwich and Windsor lines sold to Windsor	4,601.83		
	$24,163.27		
Equipment moved from Vaughan township feeder at Woodbridge station	83.16		
		24,246.43	
Excess of receipts over expenditures in the year			$15,854.78

NOTE—In the year transfers were made from rural lines to rural power districts—no cash expenditure involved	$17,648.65		

LOCAL DISTRIBUTING SYSTEMS

Amherstburg	$4,520.53		
Cottam	114.37		
York Mills	33.01		
		$4,667.91	
Less—Sale of distribution system to North York township		20,121.15	
Excess of receipts over expenditures			$15,453.24

NOTE—In the year the following transfer was made as between capital accounts—no cash expenditure involved:			
From local distributing system to rural power districts	$59,712.28		
From Essex County system to local distribution systems	37,703.45		

QUEENSTON-CHIPPAWA DEVELOPMENT

Capital Expenditures in the Fiscal Year ending October 31st, 1924

Upon canal and units 1 to 5:			
Right-of-way	$37,312.12		
Generating station and equipment	67,314.01		
Construction—material and labour	557,992.00		
		$662,618.13	
Upon units 6, 7 and 8:			
Generating station and equipment	$781,980.00		
Power house substructure, hydraulic machinery, penstocks, valves, turbines, intake works, river improvements and head works, etc., etc.	1,915,581.34		
		2,697,561.34	
Upon unit No. 9:			
Generating station and equipment	$32,306.19		
Power house substructure, hydraulic machinery, penstocks, valves, turbines, intake works, river improvements and head works	174,082.26		
		206,388.45	
		$3,566,567.92	
Less—Amount charged to above construction work in respect of materials, spare parts, and supplies purchased and paid for prior to October 31st, 1923	$454,123.55		
Amount realized from sale of construction plant and equipment	118,416.80		
Plant and equipment transferred to Niagara and other systems and capitalized thereon	53,092.07		
		625,632.42	
		$2,940,935.50	
Upon engineering and superintendence		341,334.07	
Upon overhead expenses including administrative, executive and accounting salaries and expenses, insurance and fire protection		245,627.54	
Upon interest during construction		145,828.96	
Upon engineering expenses securing information and preparation of data for the defence of suit—B. F. Groat vs. Hydro-Electric Power Commission—re alleged infringement of intake patents		3,990.86	
Upon engineering investigations in respect of a second development		15,056.84	
Total expenditure in the year			$3,692,773.77

Right-of-way

Land purchased and expenses incidental thereto	$37,312.12

Generating Station and Equipment (Canal and Units 1 to 5)

Buildings and structures	$107,097.57
Generators	7,469.03
Switching equipment (general)	13,396.11
Switching up to low tension bus and switching between low tension bus and transformers	6,202.98
Transformers and switching equipment between transformers and high tension bus	3,445.27
High tension bus, incoming and outgoing feeders	2,085.68
Service equipment	16,053.04
Temporary construction	2,121.94
Auxiliary Systems—Permanent:	
Oil supply for generators and transformers	2,801.47
Power house lighting	4,313.39
Ventilating systems	2,414.77
Water cooling systems	63.53

Sanitation and drainage	$1,374.12		
Water supply	1,033.62		
Compressed air systems	2,661.66		
Heating, fire protection, etc	2,503.92		
Temporary equipment and field overhead expenses	2,393.34		
		$177,431.44	
Less—Transformation equipment and portion of expenditure on building transferred to Niagara Transformer Station Account (being 43½ per cent of the total expenditure in the fiscal year ending October 31, 1924, on the station and equipment, plus a portion of the overhead expenses) subject to revision upon completion of work		$110,117.43	
			$67,314.01

Construction Material and Labour (Canal and Units 1 to 5)

Intake works		$91,035.21	
River improvements		175,448.48	
Ice and log chutes		26.63	
Penstocks		21,459.11	
Power house at Queenston (substructure)		20,276.84	
Turbines and governors		6,220.33	
Power house machinery including large valves, sluice gates and motors		9,427.43	
Bridges, trestles, culverts and roadways (permanent)		115,733.83	
Auxiliary systems, including sanitation, water supply, compressed air, fire protection, etc		351.70	
Miscellaneous		305.89	
Head Works and Screenhouse:			
Substructure	$8,519.63		
Superstructure	40,848.50		
		49,368.13	
Canal improvements		67,724.05	
Forebay		502.00	
Escarpment		112.37	
			$557,992.00

Generating Station and Equipment (Units 6, 7, and 8)

Buildings and structures	$355,771.25		
Generators	424,069.01		
Switching equipment (general)	120,614.24		
Switching up to low tension bus and switching between low tension bus and transformers	135,403.16		
Transformers, and switching equipment between transformers and high tension bus	347,207.65		
High tension bus, incoming and outgoing feeders	72,322.27		
Service equipment	6,591.41		
Temporary construction	1,152.76		
Miscellaneous equipment, including hoists, elevators, tools, tarpaulins, etc., furniture and office equipment	3,445.36		
Auxiliary Systems—Permanent:			
Oil supply for generators and transformers	8,274.02		
Power house lighting	21,022.98		
Ventilating systems	4,649.73		
Water cooling systems	1,828.22		
Sanitation and drainage system	4,232.49		
Compressed air systems and water supply	1,898.95		
Heating, fire protection, etc	1,643.21		
Temporary equipment and field overhead expenses	22,600.02		
		$1,532,726.73	
Less—Transformation equipment and portion of expenditure on building transferred to Niagara Transformer Station Account (being 43½ per cent of the total expenditure in the fiscal year ending October 31, 1924, on the station and equipment, plus a portion of the overhead expenses and interest) subject to revision upon completion of work		750,746.73	
			$781,980.00

POWER HOUSE SUBSTRUCTURE, HYDRAULIC MACHINERY, PENSTOCKS, VALVES, TURBINES, INTAKE WORKS, RIVER IMPROVEMENTS AND HEAD WORKS (UNITS 6, 7 AND 8)

Power house substructure		$409,641.36	
Power house machinery		29,545.43	
Penstocks		247,201.33	
Turbines and governors—main		329,162.41	
Auxiliary systems, including water, drainage, etc		10,626.23	
Tail race		6,268.49	
Intake works		6,918.61	
River improvements		377,989.13	
Canal betterments		203,903.36	
Ice chutes		4,537.78	
Escarpment		12,173.66	
Head Works and Screenhouse:			
Substructure	$7,317.84		
Superstructure	57,453.46		
General	7,494.11		
		72,265.41	
Operation of Auxiliary Plants:			
Construction railways	$29,840.76		
Construction roadways	415.85		
Machine shop	5,295.83		
Carpenter shop	2,129.27		
Garage and stable	40,133.63		
Power, light and telephone	55,657.67		
Water and sanitary systems	19,238.61		
Dressing station and hospital	8,082.63		
Camp buildings, equipment and operation	4,274.56		
Compressed air systems	7,287.43		
Stone crushing expense	6,168.27		
Plant maintenance and repairs	13,305.66		
General overhead charges	13,517.97		
		$205,348.14	
			$1,915,581.34

GENERATING STATION AND EQUIPMENT (UNIT NO. 9)

Buildings and structures	$13,383.16	
Generator	17,505.59	
Sanitation and drainage	1,238.55	
Water supply—permanent	178.89	
		32,306.19

POWER HOUSE SUBSTRUCTURE, HYDRAULIC MACHINERY, PENSTOCK, VALVES, TURBINE, INTAKE WORKS, RIVER IMPROVEMENTS AND HEAD WORKS (UNIT NO. 9)

Power house substructure		$55,776.71	
Power house machinery		11,519.12	
Penstocks		8,042.70	
Turbines and governors—main		52,122.54	
Intake works		2,085.51	
River improvements		1,381.03	
Canal betterments		39,706.58	
Escarpment		863.74	
Auxiliary systems—permanent		146.34	
Head Works and Screenhouse:			
Substructure	$1,444.19		
Superstructure	908.56		
		2,352.75	
Other expenses chargeable direct to the development		85.24	
			$174,082.26

ENGINEERING AND SUPERINTENDENCE

Head office engineering and superintendence	$98,526.78
Field office engineering and superintendence	140,199.81
Head office and field—designing	33,358.74
Field office tests and inspection	18,094.87
Field office accounting and timekeeping	40,707.82
Surveys for construction	877.19
Field office equipment and maintenance	5,087.85
Field office stationery and blue prints	4,481.01
	$341,334.07

OVERHEAD EXPENSES

Proportion of head office administration, executive and accounting salaries and expenses	$211,672.97	
Fire protection	6,680.19	
Insurance	27,274.38	
		$245,627.54

INTEREST DURING CONSTRUCTION

Interest on expenditures in the fiscal year ending October 31, 1924, in connection with the installation of Units 6, 7, 8 and 9	$145,828.96

ENGINEERING EXPENSES SECURING INFORMATION AND PREPARATION OF DATA FOR THE DEFENCE OF SUIT B. F. GROAT VS. HYDRO-ELECTRIC POWER COMMISSION RE ALLEGED INFRINGEMENT OF INTAKE PATENTS

Expended thereon to date	$3,990.86

ENGINEERING INVESTIGATIONS IN RESPECT OF A SECOND DEVELOPMENT

Expended thereon in the year	$15,056.84

NOTE—In the year the following transfer was made—no cash expenditure involved:
Walkerton Stone Quarry repossessed under mortgage on which the unpaid balance was $238,678.08

GEORGIAN BAY SYSTEM

Combining Systems formerly known as Severn, Eugenia and Wasdells Systems
Capital Expenditures in the Fiscal Year ending October 31st, 1924

Upon power developments		$120,651.35	
Upon transmission lines		179,491.03	
Upon transformer stations		17,735.62	
		$317,878.00	
Less—Rural power districts:			
Receipts in excess of expenditures	$8,934.32		
Rural lines:			
Receipts in excess of expenditures	5,711.12		
		14,645.44	
			$303,232.56

POWER DEVELOPMENT AT EUGENIA FALLS

Installation of second pipe line, surge tank and penstock	$112,885.11	
Installation of five pipeless furnaces in operators' cottages	1,112.75	
Battery change in the generating station	1,046.74	
Cost of stringing a second 600-volt copper circuit from power house to head gates	1,810.66	
Final payment of contract for steel used in the construction of crossover for first extension	4,350.00	
	$121,205.26	
Less—Equipment transferred to other systems and capitalized thereon	2,139.41	
		$119,065.85

POWER DEVELOPMENT AT THE BIG CHUTE

Preliminary engineering re development at Port Severn	$154.87
Pipeless furnace and heating facilities at Big Chute	566.06
Installation of motor generator set at Big Chute	1,251.61
	$1,972.54

Less—Equipment transferred to other accounts and capitalized thereon:			
Battery parts transferred to Eugenia development	$541.46		
Portable tools transferred to Tool account	658.34		
		$1,199.80	$772.74

Power Development at Wasdell Falls

Motor-driven pump		$9.68	
Timber protection for dam		59.10	
Safety rail on the dam		321.28	
Pipeless furnace for cottages		183.70	
Motor supply for stop-log winch		260.79	
		$834.55	
Less—Portable tools transferred to Tool account		21.79	
			812.76
Total expenditure in the year on generating stations			$120,651.35

Transmission Lines

Construction of New Lines:			
South Falls to Waubaushene, 40,000-volt tie line			$155,815.08
Extensions to and additional equipment on existing lines:			
Cannington to Pinedale		$47.09	
Pinedale to Greenbank		39.85	
Junction pole No. 832 to junction pole No. 1,011, Kirkfield line		26.86	
Junction W52—air-brake switch		483.05	
Hornings Mills		72.46	
Eugenia to Meaford Junction		65.82	
Chatsworth to junction pole No. 1,141A		874.11	
Chesley to Paisley		36.64	
Dundalk to Shelburne		437.05	
Durham to Holstein		1,480.73	
Hanover to junction pole No. 161		359.07	
Harriston to Mount Forest—tie line		573.32	
Dundalk Junction to Dundalk		874.11	
Dundalk Junction to Priceville		1,285.98	
Junction pole to Hanover		2,005.19	
Junction pole No. 1,380 to junction pole No. 1,798, Grand Valley line		239.89	
Meaford Junction to Collingwood		61.32	
Meaford Junction to Meaford—22,000-volt line		21,665.42	
Junction pole No. 1,141A to Kilsyth		874.11	
Tiffin Junction to Midland		47.04	
Tiffin Junction to Grand Trunk Railway elevator station		27.96	
Waubaushene Station to junction pole		46.67	
Junction pole No. 188 to junction pole No. 401, Tiffin elevator line		114.76	
Junction pole No. 401 to Tiffin Junction		45.36	
			31,783.86
			$187,598.94
Less—Equipment transferred to other lines and capitalized thereon:			
Air-brake switches		$2,091.75	
Durham Russell Station to Holstein Junction		481.60	
Durham Junction to Durham Russell Station		271.74	
Holstein Junction to Mount Forest		493.11	
Walkerton Junction to Hanover Cement Company		23.85	
Wingham Junction to Wingham		108.61	
Hanover Cement Junction to Walkerton Quarry		4.77	

Hanover Cement Junction to Teeswater	$2.86		
Big Chute to Waubaushene	4,286.83		
Cookstown to junction pole	7.18		
Junction pole No. 1,110 to junction pole No. 1,786, Collingwood line	220.27		
Junction pole to Alliston Station	7.18		
Junction pole No. 1,011 to junction pole No. 1,203, Beaverton line	108.16		
		$8,107.91	
Total expenditure in the year on transmission lines			$179,491.03

TRANSFORMER STATIONS

Construction of New Stations:			
Meaford	$5,214.14		
Phelpston	1,256.56		
Waubaushene auto transformer	403.99		
		$6,874.69	
Extensions to and additional equipment in existing stations:			
Midland	$1,158.45		
Penetang	89.44		
Collingwood	99.86		
Coldwater	65.81		
Elmvale	62.54		
Stayner	67.11		
Grand Trunk Railway—Tiffin Station	168.97		
Port McNicoll	624.46		
Victoria Harbour	137.06		
Canadian Pacific Railway, Port McNicoll	1,402.53		
Beeton	623.93		
Tottenham	142.30		
Cookstown	149.68		
Thornton	56.31		
Bradford	2,536.60		
Waubaushene	203.79		
Beaverton	817.70		
Cannington	293.24		
Kirkfield	340.59		
Owen Sound	74.98		
Chatsworth	325.47		
Chesley	4,951.88		
Dundalk	2.93		
Hanover	7.55		
Mount Forest	234.34		
Shelburne	5,511.57		
Orangeville	297.73		
Grand Valley	367.17		
Kilsyth	56.45		
Elmwood	50.05		
Holyrood	3,081 41		
Kincardine	92.30		
Walkerton Quarries	2,740.24		
Mount Forest	3,347.72		
		30,182.16	
Spare equipment:			
Three 100-kv-a. transformers	$1,200.00		
One 75-kv-a. transformer	1,209.18		
Three 75-kv-a. transformers	1,660.00		
		4,069.18	
		$41,126.03	
Less—Equipment transferred to other stations and capitalized thereon from the following:			
Midland	$588.66		
Barrie	61.04		
Collingwood	142.52		
Coldwater	144.16		
Elmvale	57.84		
Stayner	129.06		

Port McNicoll	$750.19		
Victoria Harbour	226.21		
Canadian Pacific Railway, Port McNicoll	532.00		
Alliston	.45		
Beeton	275.10		
Tottenham	238.50		
Cookstown	301.84		
Thornton	241.26		
Bradford	2,427.66		
Waubaushene	78.04		
Owen Sound	58.21		
Chatsworth	232.00		
Chesley	2,506.21		
Durham	57.92		
Hanover	71.24		
Mount Forest	245.23		
Shelburne	2,635.71		
Orangeville	90.73		
Grand Valley	289.79		
Wingham	1.02		
Holyrood	5,444.16		
Walkerton Quarries	4,538.05		
Beaverton	578.23		
Cannington	126.09		
Kirkfield	311.28		
Pinedale	10.01		
		$23,390.41	
Total expenditures in the year on transformer stations			$17,735.62

RURAL POWER DISTRICTS

Barrie District:			
4.9 miles of lines to supply twenty-two consumers in Oro township	$32.32		
0.3 mile of lines to supply two consumers in Oro township	170.50		
Installing additional services	821.28		
Elmvale District:			
0.35 mile secondary lines to supply nineteen consumers in hamlet of Phelpston	1,169.74		
Erection of seven multiple street lights in Phelpston	264.64		
Stayner District:			
11 miles of lines to supply 200 consumers	194.27		
Installing additional services	1,316.56		
Nottawasaga District:			
Installing new services	300.12		
Markdale District:			
Additional services	84.53		
Flesherton District:			
Additional services	32.87		
Walkerton District:			
Additional services	31.48		
Cannington District:			
Additional services	120.75		
Port Perry District:			
Additional services	55.15		
Mariposa District:			
18½ miles of lines to supply ninety-six consumers	957.82		
Additional services	525.12		
		$6,077.15	
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50 per cent of the cost of primary lines constructed in the year, and 50 per cent of the cost of practically all secondary lines constructed prior to 31st October, 1924.		15,011.47	
Excess of receipts over expenditures on Rural Power Districts			$8,934.32

NOTE—The following transfer was made in the year as between Capital Accounts—no cash expenditure involved:
To Rural Power Districts from rural lines.... $9,266.49

RURAL LINES

Lucknow District	$367.70		
Gamebridge street lighting	26.30		
		$394.00	
Less—Rural lines sold to Beaverton		6,105.12	
Excess of receipts over expenditures on rural lines			$5,711.12

MUSKOKA SYSTEM

Capital Expenditure in the Fiscal Year Ending 31st October, 1924

Upon power developments	$171,527.70		
Upon transformer stations	1,100.10		
		$172,627.80	
Less—Transmission Lines:			
Receipts in excess of expenditures		436.25	
			$172,191.55

POWER DEVELOPMENTS

Extension to South Falls Generating station and the installation of two additional units	$166,679.24	
Construction of generating station at Hanna's chute and installation of one unit	6,870.77	
	$173,550.01	
Less—Equipment removed from South Falls plant, transferred to other stations and capitalized thereon	2,022.31	
Total expenditures in year on power developments		$171,527.70

TRANSFORMER STATIONS

Construction and Equipment of New Station:		
Gravenhurst—Pole type station	$587.42	
Extension and additional Equipment on Existing Stations:		
Huntsville—Relay protection	594.68	
	$1,182.10	
Less—Equipment transferred to other stations and capitalized thereon:		
From Huntsville	$82.00	
Total expenditure in the year on transformer stations		$1,100.10

TRANSMISSION LINES

Construction of New Lines:		
Junction pole to Gravenhurst	$40.94	
Less—Equipment transferred to other lines and capitalized thereon:		
From South Falls—Waubaushene line	477.19	
Excess of receipts over expenditures		$436.25

ST. LAWRENCE SYSTEM

Capital Expenditures in the Fiscal Year Ending 31st October, 1924

Upon transformer stations		$7,339.91	
Less—Transmission Lines:			
Receipts in excess of expenditures	$287.32		
Less—Rural Power Districts:			
Receipts in excess of expenditures	4,822.02	5,109.34	
			$2,230.57

Transformer Stations

Extensions to and Additional Equipment on Existing Stations:			
Cornwall	$256.33		
Brockville	87.82		
Chesterville	156.07		
Toronto Paper Company—installing larger transformer	9,733.90		
Lancaster	64.96		
Maxville	124.71		
		$10,423.79	
Spare Equipment:			
Three 150-kv-a. transformers		2,575.00	
		$12,998.79	
Less—Equipment transferred to other stations and capitalized thereon:			
From Cornwall	$654.30		
From Prescott	4,660.27		
From Toronto Paper Company station	233.31		
From Maxville	111.00		
		5,658.88	
Total expenditure in the year on transformer stations			$7,339.91

Transmission Lines

Additions to Existing Lines:			
Grant's Corners to Martintown		$23.20	
Less—Equipment transferred to other lines and capitalized thereon:			
From Junction to Phillips' Company line	$245.56		
From Lancaster meters	64.96		
		310.52	
Excess of receipts over expenditures			$287.32

Rural Power Districts

Prescott District:		
Installing additional services	$375.89	
Brockville District:		
0.39 mile of lines to serve one consumer	245.56	
Installing additional services	1,035.52	
Williamsburg District:		
0.14 mile of lines to serve one consumer	486.34	
Martintown District:		
Installing additional services	172.11	
Apple Hill District:		
Installing additional services	4.54	
	$2,319.96	
Less—Equipment removed from Chesterville and Martintown districts and capitalized on other lines	234.83	
	$2,085.13	
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50 per cent of the cost of primary lines constructed in the year and 50 per cent of the cost of practically all secondary lines constructed prior to 31st October, 1924	6,907.15	
Excess of receipts over expenditures		$4,822.02

RIDEAU SYSTEM

Capital Expenditures in the Fiscal Year Ending 31st October, 1924

Upon transmission lines		$16.30	
Less—Power Development:			
Receipts in excess of expenditures	$1,164.38		
Less—Transformer Stations:			
Receipts in excess of expenditures	17.73		
		1,182.11	
Excess of receipts over expenditures in the year			$1,165.81

Transmission Lines

Extensions to and additional equipment on existing lines:			
Merrickville to Grenville Crushed Rock Company		$20.30	
Less—Equipment transferred to other lines and capitalized thereon:			
From Balderson to Lanark line		4.00	
Total expenditure in the year on transmission lines			$16.30

Power Development

Hydro-Electric Power Commission's share of the cost of making improvements on the Mississippi River through the Mississippi River Improvement Company	$1,135.57		
Line to serve neighbouring cottages	221.25		
Motor for head gates	568.15		
Storage dam at Mazinaw Lake	3.00		
		$1,927.97	
Less—Equipment transferred to other plants and capitalized thereon		3,092.35	
Excess of receipts over expenditures in the year			$1,164.38

Transformer Stations

Extensions to and additional equipment on existing station:			
Carleton Place		$97.61	
Less—Equipment transferred to other stations and capitalized thereon:			
From Perth	$34.90		
From Carleton Place	80.44		
		115.34	
Excess of receipts over expenditures in the year			$17.73

THUNDER BAY SYSTEM

Capital Expenditures in the Fiscal Year ending 31st October, 1924

Upon generating plant	$1,528,652.90	
Upon transmission lines	850,932.02	
Upon transformer stations	92,724.59	
		$2,472,309.51

Generating Plant—Upon Units 3 and 4

Construction, material and labour:

Power house substructure	$165,152.23	
Water conveying and controlling systems	72,737.43	
Head gates	20,330.44	
Turbines	79,259.48	
Governors	4,952.77	
Railroads, bridges and culverts	32,448.90	

Auxiliary construction plants:

Power, compressed air, water and heating systems	25,493.49	
Concrete mixer and distributing plant	11,257.04	
Construction plant and equipment	18,067.20	
Crusher, screening and washing plants	39,875.87	
Temporary buildings for construction purposes	5,216.78	
Machine and carpenter shop equipment	6,820.78	
Mail service	2,484.62	
Medical, first-aid and hospital service	4,459.42	
Plant maintenance and repairs	10,816.12	
Other expenses chargeable direct to the works	5,623.06	
	$504,995.63	
Less—Surplus from camp and stable operations	16,668.39	
		$488,327.24

Generating Station and equipment:

Power house superstructure	$144,998.81	
Generators	253,920.57	
Transformers	53,611.40	
Switching and service equipment	96,474.98	
Auxiliary systems, heating, lighting, etc	14,158.66	
Operators' cottages	43,710.29	
		606,874.71

Generating Plant—Upon Units 5 and 6

Construction, material and labour:

Power house substructure	$28,307.16
Water conveying and controlling systems	29,359.75
Railroads, bridges, culverts, etc	8,017.22

Auxiliary construction plants:

Concrete mixer and distributing plant	7,717.15	
Gravel production	31,119.90	
Power, compressed air, water and heating systems	2,869.13	
Construction plant and equipment	878.14	
Mail service	384.70	
Machine and carpenter shop equipment	365.69	
Fire protection	510.65	
Medical, first-aid and hospital service	181.99	
Other expenses chargeable direct to the works	2,468.88	
	$112,180.36	
Less—Surplus from camp and building operations	543.98	
		111,636.38

Generating station and equipment:			
Power house superstructure		$17,915.33	
Generators		119,747.47	
Sanitation and oil systems		97.60	
			$137,760.40
			$1,344,598.73
Less—Items included in the above which were transferred from Units 1 and 2 (no cash expenditures in the year)		$45,981.45	
Materials and supplies delivered from stores and included in above expenditures on construction	$198,900.90		
In excess of materials and supplies purchased in the year	185,492.13		
		13,408.77	59,390.22
			$1,285,208.51

GENERATING PLANT—UPON UNITS 1 AND 2

Installing water-sprinkler system and generators			400.15
Engineering and superintendence:			
Engineering—Head office and field		$58,159.41	
Superintendence—Head office and field		26,810.11	
Designing		8,194.93	
Construction costkeeping, timekeeping and general field accounting		11,924.13	
Field Office stationery, blue prints, etc		1,244.71	
Tests and inspection		5,414.50	
Laboratory charges		1,919.01	
			113,666.80
Overhead Expense:			
Administrative, executive, and proportion of Accounting Department's salaries and expenses		$63,385.39	
Insurance		15,378.80	
Interest on investments from actual date of expenditure		33,088.25	
			111,852.44
Virgin Falls Dam—Nipigon River:			
Engineering expenses in connection with survey, design, and construction of dam			6,534.19
Thunder Bay and Algoma District:			
Surveys and investigations in connection with proposed diversion of Ogokie river			10,990.81
Total expenditure on generating plant			$1,528,652.90

TRANSMISSION LINES

Construction of new lines:			
Erection of 110,000-volt steel tower line from Nipigon to Port Arthur (Bare Point) transformer station		$645,774.30	
Erection of 110,000-volt steel tower line from Port Arthur (Bare Point) transformer station to the proposed intercities station		136,935.70	
Erection of 110-k.-v. line from Port Arthur to Great Lakes Pulp and Paper Company Station		44,293.65	
Single circuit wood-pole line from Reserve Junction to Junction near Guaranty Investment Corporation		18,076.88	
Installation of switches at Dorion		4,831.55	
			$849,912.08

Additions to existing lines:			
Cameron's pool to Junction near Guaranty Investment Corporation	$15.00		
Nipigon generating station to Reserve Junction	29.68		
Sprucewood Junction to Dorion Junction	222.79		
Dorion Junction to Port Arthur Station	811.81		
Patrolman's residence at Dorion	21.00		
		$1,100.28	
		$851,012.36	
Less—Equipment transferred to other lines and capitalized thereon		80.34	
Total expenditure in the year on transmission lines			$850,932.02

TRANSFORMER STATIONS

Port Arthur (Bare Point Station):			
Installation of 2nd bank of 4,000-kv.-a. transformers with switching equipment	$75,053.60		
Construction of permanent 110-k.-v. outdoor transformer station	16,038.57		
Erection of operators' houses	210.40		
Metering equipment for Kaministiquia Power Company	659.46		
Metering equipment for Great Lakes Pulp and Paper Company	1,403.68		
Metering equipment for Guaranty Investment Corporation	716.03		
		$94,081.74	
Less—Equipment transferred from Port Arthur Station to other systems and capitalized thereon		1,357.15	
Total expenditure in the year on transformer stations			$92,724.59

OTTAWA SYSTEM

Capital Expenditures in the Fiscal Year ending 31st October, 1924

Upon transformer stations	$7.83	
Upon rural power districts	4,218.06	
		$4,225.89

TRANSFORMER STATIONS

Betterments to metering equipment in Ottawa and Hull Power Company's Station	.....	$7.83

RURAL POWER DISTRICTS

Nepean District:			
5.75 miles lines to supply forty consumers	$7,812.80		
Installing additional services	920.50		
	$8,733.30		
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50 per cent of the cost of primary lines constructed in the year and 50 per cent of the cost of practically all secondary lines constructed prior to 31st October, 1924		4,515.24	
			$4,218.06

CENTRAL ONTARIO AND NIPISSING SYSTEMS

Capital Expenditure in the Fiscal Year ending 31st October, 1924.

On power development—Central Ontario system..	$1,071,658.38		
On transformer stations—Central Ontario system	31,248.27		
On transmission lines—Central Ontario system....	86,893.54		
On local utilities—Central Ontario system.....	118,034.74		
On pulp mill and Bruton Limits—Central Ontario system	633.73		
On power development—Nipissing system.....	141,563.64		
On transmission lines—Nipissing system.....	1,891.96		
On local utilities—Nipissing system.....	8,100.07		
		$1,460,024.33	
Less—On Rural Districts—Central Ontario System: Excess of receipts over expenditures.....	$3,466.56		
Less—On Transformer Stations and Service: Buildings—Nipissing System—Equipment transferred in excess of expenditures...	1,742.84		
		5,209.40	
			$1,454,814.93

CENTRAL ONTARIO SYSTEM

Power Developments

At Sidney—Installation of rotary pumps, hand brakes and signal horn.....		$1,597.63	
At Frankford—Installation of rotary pumps, hand brakes and protective equipment.....		1,578.45	
At Meyersburg—Development of Dam No. 8:			
Lands and buildings.....	$75,470.60		
Headrace and tailrace, penstock, etc.....	238,157.74		
Turbines.....	49,219.85		
Generators and transformers.....	210,978.87		
Cranes, tools, covers, etc.....	8,892.56		
Roadways, drainage, etc.....	4,682.40		
Construction railroad, concrete crushing and panel systems, temporary buildings, machine shop, small tools and equipment...	7,969.33		
Interest during construction for the year.....	13,099.02		
Head office engineering and superintendence..	24,163.63		
Field engineering and superintendence.....	5,470.09		
Sundry overhead expenses.....	5,266.38		
Proportion head office administrative, executive and accounting salaries and expense	11,147.13		
		654,517.60	
At Lock No. 9—Development of Dam No. 9:			
Lands and buildings.....	$75,710.17		
Headrace, tailrace, and penstock, etc.....	43,323.61		
Turbines.....	40,499.56		
Generators and transformers.....	127,253.45		
Cranes, tools, covers, etc.....	5,291.89		
Roadways, drainage, etc.....	1,830.16		
Construction railroads, concrete crushing and gravel system, temporary buildings, machine shop, small tools and equipment...	41,389.90		
Interest during construction for the year.....	5,324.43		
Head office engineering and superintendence..	20,310.92		
Field office engineering and superintendence..	6,017.54		
Sundry overhead expense.....	6,632.32		
Proportion head office administrative, executive and accounting salaries and expense	10,990.45		
		384,574.40	

At Seymour—Installation of new Westinghouse relay and high voltage feeder		$354.73	
At Heely Falls—Installation of ball thrust bearings and synchroscope		663.12	
At Auburn—Grounding neutrals		40.51	
At Ranney Falls—Installation of voltage regulators, high volt feeder and protective equipment		6,272.64	
At Kashabog Lake—Installation of rock filled crib and bench dam		22,214.57	
At Sidney Terminal Station—Installation of high voltage feeder, protective equipment and grounding device		2,292.80	
At Peterboro Hydraulic Power Company—Installation of metering equipment		428.20	
At Canadian General Electric Company—Installation of metering equipment		1,665.22	
		$1,076,199.87	
Less—Operator's house, transferred to stations	$1,656.00		
Bowmanville station—adjusting previous charge	2,885.49		
		4,541.49	
Total expenditure during the year on power developments			$1,071,658.38

TRANSFORMER STATIONS

Extension to and additional equipment installed in Stations at:			
Belleville		$2,016.37	
Bowmanville		3,092.91	
Lindsay, new		560.44	
Napanee		45.65	
Oshawa		1,188.18	
Port Hope		11.68	
Dam No. 8		5,558.53	
Dam No. 9		5,613.13	
Kingston		313.86	
Kingston power development		210.60	
Lehigh		102.92	
Norwood		113.24	
Peterboro, railway		19,438.24	
Sulphide		3,278.00	
Warkworth		63.32	
Canada Boxboard Company		47.07	
Dam No. 8, Lockmaster		37.21	
Heely Falls, Lockmaster		8.15	
		$41,699.50	
Less—Equipment transferred to other stations and to stores:			
From Belleville Cement Company station	$2,078.50		
From Cobourg station	2,318.29		
From Colborne station	1,452.86		
From Millbrook station	234.20		
From Newcastle station	222.85		
From Omemee station	118.00		
From Peterboro station	3,801.53		
From Pulp Mill station	225.00		
		10,451.23	
Total expenditure during the year on transformer stations			$31,248.27

Transmission Lines

Construction of new lines:			
Control cable between power houses at Dams Nos. 8, 9 and 10	$8,680.25		
Meyersburg to Sidney Terminal	46,969.91		
Canadian National Railway, Oshawa to Port Hope district	254.21		
Dam No. 8 to Dam No. 9	7,961.04		
Dam No. 9 to Dam No. 10	6,212.31		
Dam No. 10 to Junction pole No. 62	2,138.03		
Junction pole No. 62 to Pulp Mill Junction	1,311.52		
		$73,527.27	
Additional equipment on existing transmission lines:			
Sidney terminal to Picton	$309.80		
Auburn switching station	7,298.22		
Norwood to Auburn switching station	596.88		
Ranney Falls to Ranney Junction	4.42		
Dam No. 8 to Meyersburg	1,873.90		
Dam No. 9 to Dam No. 9 Junction	3,922.38		
Port Hope switching to Newcastle	5,197.56		
Newcastle to Bowmanville	720.00		
Bowmanville to Oshawa	2,320.00		
Napanee to Kingston	75.56		
Madoc switching station	2.60		
Deloro switching station	2.60		
Auburn switching station to Peterboro	4,568.46		
Norwood to Havelock	37.64		
Oshawa to Whitby rural	70.45		
Warkworth station to Warkworth	5.10		
		27,005.57	
		$100,532.84	
Less—Equipment transferred to other lines and rural power districts, and capitalized thereon:			
From Pump Mill line	$32.65		
From Dam No. 11 Campbellford Mills line	69.00		
From Dam No. 11, Hoards line	13,537.65		
		13,639.30	
Total expenditure during the year on transmission lines			$86,893.54

Local Utilities

Extensions to the following utilities:			
Belleville—Electric	$8,522.14		
Bowmanville—Electric	7,005.98		
Newcastle—Electric	188.20		
Orono—Electric	546.81		
Brighton—Electric	212.83		
Cobourg—Electric	3,136.94		
Cobourg—Gas	313.71		
Cobourg—Water	5,644.79		
Lindsay—Electric	4,519.32		
Millbrook—Electric	319.96		
Napanee—Electric	1,644.65		
Deseronto—Electric	256.93		
Newburgh—Electric	168.14		
Oshawa—Electric	22,403.58		
Oshawa—Gas	14,649.33		
Port Hope—Electric	2,311.34		
Peterboro—Gas	43,379.93		
Peterboro—Street Railway	559.85		
Trenton—Electric	1,242.16		
Tweed—Electric	1,008.15		
Total expenditures in the year on local utilities			$118,034.74

Pulp Mill and Bruton Limits

Extension to sluiceway at Byers Dam	$633.73

Rural Power Districts

Oshawa rural power district—Extensions thereto..	$1,192.44		
Kingston rural power district—Extensions thereto	4,479.57		
Bowmanville rural power district—Construction thereof	712.67		
Trenton rural power district—Construction thereof	705.84		
Campbellford rural power district—Construction thereof including lines transferred thereto from transmission lines	13,931.33		
		$21,021.85	
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50% of the cost of primary lines constructed in the year and 50% of the cost of practically all secondary lines constructed prior to 31st October, 1924		24,488.41	
Excess of receipts over expenditures on rural power districts			$3,466.56
Note—Additions not involving cash expenditure: Rural lines taken over from Whitby, East Whitby and Pickering townships	$18,876.58		

NIPISSING SYSTEM

Power Developments

Bingham Chutes development—Construction	$48,487.72		
North Bay standby station—Construction	30,299.43		
Nipissing generating station—Installation of 1,400 kv-a. generator, new runner, and gates and wood stave pipes	62,045.44		
Reserve equipment—One 50 and one 25-kv-a. transformers	731.05		
Total expenditure in the year on power developments			$141,563.64

Transmission Lines

Construction of the following transmission lines:			
Bingham chute to Bingham chute Junction	$907.80		
Powassan Junction	984.16		
Total expenditure in the year on transmission lines			$1,891.96

Local Utilities

Extensions to the following electric utilities:			
North Bay	$7,320.04		
Powassan	708.50		
Callander	67.53		
Nipissing	4.00		
Total expenditure in the year on local utilities			$8,100.07

Transformer Stations and Service Building

Extensions to the following transformer stations:			
North Bay	$51.50		
Callander	2,050.82		
	$2,102.32		
Service building	398.39		
		$2,500.71	
Less—Equipment transferred from Powassan Station to Bingham Chute Development and Callander Station		4,243.55	
Equipment transferred in excess of expenditures			$1,742.84

MISCELLANEOUS

Capital Expenditures in the Fiscal Year ending 31st October, 1924

Upon service buildings and equipment	$3,874.07	
Upon office buildings and equipment	5,524.32	
		$9,398.39

Service Buildings and Equipment

Cafeteria equipment	$69.31	
Storehouse equipment	227.00	
Garage equipment	125.39	
Machine shop equipment	1,409.20	
Meter repair shop equipment	207.93	
Laboratory equipment	2,788.51	
	$4,827.34	
Less—Equipment transferred to other accounts and capitalized thereon	953.27	
Total expenditures in the year on service buildings and equipment		$3,874.07

Office Buildings and Equipment

Building on University Avenue:		
Installation of additional heating apparatus	$3,438.61	
Engineering expenses in connection with design of extension to present building	2,084.49	
	$5,523.10	
Less—Equipment transferred to stores	31.39	
	$5,491.71	
Building on Elm Street:		
Improvement to walls of elevator shaft	32.61	
Total expenditures in the year on office buildings and equipment		$5,524.32

EXPENDITURES ON ACCOUNT OF THE PROVINCE

in the Fiscal Year Ending 31st October, 1924

Power Investigations, Surveys, Etc.

Engineering assistance to non-operating municipalities and districts; gathering data for statistical purposes and estimates for the supply of power; also rate investigations	$3,985.05	
General hydrographic surveys, storage surveys, reports and investigations on power sites and stream flow, and special hydrographic investigations and reports	41,697.74	
Estimates, surveys, and demonstrations in rural districts	10,668.40	

Electrical Inspection

Salaries and expenses of inspectors; expenses of local offices; inspection of electrical appliances, material, etc., and administration	$248,614.47	
Less—Revenue from inspection fees	192,645.69	
	55,968.78	

Parry Sound Dam

Amount expended by the Commission in connection with repairs to Parry Sound dam, as authorized by Order-in-Council dated June 5, 1923	6,612.80	
		$118,932.77

Engineering Assistance to Non-operating Municipalities and Districts, Etc.

Alfred	$32.63
Angus	34.00
Arkona	30.18
Avonmore	14.94
Bayfield	200.26
Beachburg	12.00
Beamsville	64.01

Blind River	$10.92
Blyth	62.36
Winchester Springs	87.68
Bridgeport	64.20
Brussels	50.84
Cache Bay	23.95
Campbellville	111.90
Capreol	44.64
Cayuga	78.00
Clifford	110.92
Cochrane	223.05
Cornwall	17.27
Crysler	5.09
Erieau	77.50
Erie Beach	10.73
Finch	356.87
Fenthill	37.39
Fort William	228.47
Frankford	47.45
Grimsby	269.72
Hawkesbury	55.96
Hoath Head	5.73
Holland Centre	39.97
Inwood	25.55
Jarvis	16.24
Kenora	16.37
King	.10
LaSalle	100.00
Ansonville	76.55
Mattawa	60.23
Newington	6.94
Norval	6.12
Russell	10.92
St. Davids	5.61
South River	21.99
Stouffville	10.86
Sturgeon Falls	47.43
Sudbury	.50
Walton	22.19
Westboro	95.25
Wheatley	182.39
Wiarton	9.28
Pickering	62.71
Nipigon Village	91.74
Bertie Township	42.71
Cornwall Township	13.59
Downie Township	22.19
Flamboro Township East	29.80
Ellice Township	18.94
Gainsborough Township	4.28
Goderich Township	39.51
Gwillimbury Township	.80
Haldimand Township	5.76
Hallowell Township	8.53
King Township	4.90
London Township	8.49
Mara Township	10.92
North Grimsby Township	4.23
Rama Township	5.44
Trafalgar Township	93.97
Wawanosh Township	1.00
McKillop Township	20.01
Cayuga North Township	25.47
Douro Township	10.38
Rainham Township	8.49
Culvert Township	15.63
Grenville Gravel Company	141.31
Fort William Pulp and Paper Company	69.40
Courtaulds, Limited	101.70
	$3,985.05

General Hydrographic Surveys, Storage Surveys, Reports and Investigations on Power Sites and Stream Flow, Etc.

St. Lawrence River	$20,080.61	
Ottawa River	17,983.25	
Mississippi River	77.51	
Ragged Rapids	493.66	
Burleigh Falls	1,082.67	
Saugeen River	252.63	
Miscellaneous hydraulic investigations	1,257.76	
Reports on Crown leases	469.65	
		$41,697.74

Estimates, Surveys, and Demonstrations in Rural Districts

Head office expenses in connection with rural power dist.icts:		
Niagara system	$3,455.35	
Severn system	306.32	
Eugenia system	154.38	
Wasdell system	175.16	
St. Lawrence system	909.03	
Rideau system	40.43	
Thunder Bay system	310.12	
Rural general	3,980.18	
		$9,330.97
Preliminary investigations and surveys in specific rural power districts:		
Walton rural power district	$118.52	
Stratford rural power district	117.84	
Chesterville rural power district	85.02	
Apple Hill rural power district	11.00	
Georgetown rural power district	67.32	
Milton rural power district	15.90	
Cobourg rural power district	16.32	
Colborne rural power district	92.77	
Belleville rural power district	24.79	
Madoc rural power district	47.00	
Lakefield rural power district	1.26	
Millbrook rural power district	2.50	
Ripley rural power district	18.57	
Neustadt rural power district	1.30	
Tara rural power district	11.60	
Chatsworth rural power district	42.69	
Owen Sound rural power district	18.32	
Shelburne rural power district	7.00	
Coldwater rural power district	25.14	
Waubaushene rural power district	20.75	
Elmvale rural power district	33.74	
Camp Borden rural power district	37.04	
Thornton rural power district	18.17	
Innisfil rural power district	37.58	
Kirkfield rural power district	63.33	
Chippawa rural power district	59.60	
Dunnville rural power district	.60	
Waterdown rural power district	1.00	
Williamsburg rural power district	14.98	
Hagersville rural power district	166.95	
Barton rural power district	40.18	
Bloomfield rural power district	8.79	
Guelph rural power district	62.92	
Bolton rural power district	46.94	
		$1,337.43
		$10,668.40

Electrical Inspection

Expenditures, including a proportion of the Administrative expenses of the Commission:			
Through local offices—as per list below	$225,318.99		
Through Head Offices:			
Salaries and expenses of Chief Inspector and staff	7,506.73		
Cost of investigation and studies re revision of rules and regulations for inside electrical installations, and expenses re specifications governing tests and construction of electrical appliances.	7,941.53		
Approval tests and inspection of electrical material devices, fittings, etc., manufactured and sold in Ontario; enforcement of regulations of the Commission respecting electrical material devices, etc.	7,847.22		
		$248,614.47	
Revenue from inspection fees—as per list below		192,645.69	
Expenditure in excess of revenue			$55,968.78

Expenditure through local offices and revenue from inspection fees:

	Expenditures	Revenue
Bancroft	$22.55	$3.06
Barrie	4,768.66	1,921.22
Belleville	4,844.15	2,071.39
Brantford	6,661.04	5,586.71
Brockville	4,937.08	3,658.19
Chatham	5,106.69	3,335.86
Cochrane	175.57	810.03
Fort Frances	8.36	13.03
Guelph	4,185.84	3,696.24
Hamilton	16,048.07	15,468.35
Kenora	573.05	637.86
Kingston	3,615.41	2,612.33
Kitchener	9,165.19	9,505.53
London	9,915.35	9,083.24
Niagara Falls	7,779.34	5,391.60
Orangeville	5,508.12	1,389.07
Orillia	4,055.85	1,707.77
Oshawa	8,599.50	6,279.34
Ottawa	11,892.60	8,516.82
Peterboro	4,859.66	1,758.54
Port Arthur	4,492.29	3,313.59
Sault Ste. Marie	3,117.55	2,199.75
Sarnia	4,016.73	2,541.99
St. Catharines	5,219.82	4,957.56
Stratford	3,826.77	2,593.10
St. Thomas	4,517.31	2,922.61
Sudbury	8,557.46	5,486.01
Sioux Lookout	83.97	135.20
Timmins	1,246.74	1,365.35
Toronto	62,467.54	67,003.11
Windsor	12,405.61	14,846.29
Woodstock	2,645.12	1,834.95
	$225,318.99	$192,645.69

HYDRO RADIAL RAILWAYS

On the Sandwich, Windsor and Amherstburg Railway	$427,015.40
On the Guelph Radial Railway	$2,540.39
On the Toronto and York Radial Railway	$337,847.96
On the Port Credit–St. Catharines Radial Railway	$4,207.84
On the Toronto–Port Credit Radial Railway—Excess of receipts over expenditures	$230,192.47

Sandwich, Windsor and Amherstburg Railway

Improvements to track and roadbed	$84,294.82
Double tracking on Wyandotte, Erie, Wellington and Ottawa Streets and diversion at Walkerville	101,780.52
Improvements to trolley system, feeder system, and telephone lines	21,505.28
Improvements to shelters, heating equipment, car barns and freight shed	2,796.48
Five blocks of Nachod signals	7,028.59
Subway to connect Wyandotte and Ottawa Streets —preliminary engineering	430.67
Double-truck safety cars—balance	175,989.96
Two interurban cars—payments on account	7,584.50
Improvements to six cars	4,405.58
Sundry improvements to cars	2,188.98
Godfredson 2½-ton truck	5,050.49
Shop equipment and furniture	1,333.60
Rotary converter station, Windsor	12,625.93
Total expenditure during the year on Sandwich, Windsor and Amherstburg Railway	$427,015.40

Guelph Radial Railway

Improvements to track and roadbed	$1,665.79
Improvements to trolley system	157.28
Steel safe	403.41
Sundry improvements to cars	176.54
Shop equipment and furniture	137.37
Total expenditure during the year on Guelph Radial Railway	$2,540.39

Toronto and York Radial Railway

Metropolitan Division

Construction of new terminal at North Toronto, including land, track layout, station, car barns, etc.—balance	$5,200.71	
Improvements to track and roadbed, feeder system, etc.	22,905.73	
Construction of new substation at Sedore—balance	941.24	
Improvements to substation equipment	247.50	
Improvements to cars	674.38	
Purchase of electric locomotive	12,911.45	
Engineering re new cars	1,503.34	
Purchase of shop tools, track tools and furniture	903.96	
Improvements to buildings	5,682.87	
Improvements to parks	693.79	
Construction of ten new passing sidings	29,866.01	
Installation of Nachod signal system—balance	2,510.34	
Construction of shelters	848.95	
Construction of new culvert at mileage 6.8 on Schomberg line—balance	845.02	
Proportion of cost of construction of Aurora subway	24,647.25	
	$110,382.54	
Less—Value of gravel used from pits	323.70	
		$110,058.84

Note:—Capital cost of Metropolitan Division reduced in year by properties sold, $109,226.37.

Scarboro Division

Improvements to track and roadbed	$7,243.61	
Improvements to overhead system	1,140.02	
Improvements to substation	35.88	
Purchase of furniture, etc	59.07	
Payments on account of five new cars	76,409.90	
Improvements to cars	146.60	
Purchase of land and engineering for new terminal	2,933.09	
	$88,148.17	
Less—Proceeds from sale of properties $234.38		
Value of gravel used from pits 1,545.93	1,780.31	
		$86,367.86

Mimico Division

Improvements to track and roadbed	$17,306.38	
Construction of interchange siding with C.N.R. at St. Lawrence Starch Works	1,233.19	
Improvements to substations	221.01	
Construction of new substation at Lakeview—balance	21,565.49	
Engineering re proposed new terminal Jane Street	190.21	
Purchase of furniture, etc	985.02	
Four double truck passenger cars and equipment	93,039.08	
Construction of shelters	433.68	
Improvements to cars	4,447.20	
		141,421.26
Total expenditure during the year on Toronto and York Radial Railways		$337,847.96

Port Credit to St. Catharines Radial Railway

Port Credit to St. Catharines Line

Expenditures for creosoting and handling ties and for insurance thereon	$2,106.24		
Taxes and legal expenses	240.58		
Interest on total expenditures	22,079.12		
		$24,425.94	
Realized on ties sold		20,218.10	
Total expenditure during the year on Port Credit to St. Catharines Radial Railway			$4,207.84

Toronto to Port Credit Radial Railway

Taxes and other rentals—less property rentals	$7,442.07		
Interest on total expenditures	45,895.14		
		$53,337.21	
Properties sold to Niagara System for use as right-of-way for transmission line		283,529.68	
Excess of receipts over expenditures on Toronto to Port Credit Radial Railway			$230,192.47

RURAL POWER DISTRICTS

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

SUMMARY

System	Capital expenditures		Investment in lines in operation		Grants payable by the Province (50% of primary and secondary lines)	Extent to which grants stand authorized by orders-in-council	Grants paid by Province to Commission under such authorizations
	Total	For work in course of construction	Primary lines	Secondary lines			
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Niagara system	1,681,568.55	52,963.00	1,017,161.78	611,443.77	812,648.99	1,058,517.90	1,042,611.78
Georgian Bay system	87,467.40	.....	57,132.21	30,335.19	35,098.84	46,723.51	46,311.12
St. Lawrence system	56,372.48	.....	44,411.19	11,961.29	28,186.24	28,446.72	28,446.72
Ottawa system	46,981.63	7,784.40	30,195.14	9,002.09	19,598.62	26,125.76	26,125.76
	1,872,390.06	60,747.40	1,148,900.32	662,742.34	895,532.69	1,159,813.89	1,143,495.38
Central Ontario system	95,157.94	.....	61,922.70	33,235.24	47,578.97	51,083.33	50,927.33
Totals	1,967,548.00	60,747.40	1,210,823.02	695,977.58	943,111.66	1,210,897.22	1,194,422.71

NOTE:—The cash paid over by the Province to the Commission up to October 31, 1924, on account of authorized grants to rural power districts—as above set out—amounts to	$1,194,422.71	
The grants payable by the Province—as above set out—in respect of rural power districts in operation as at October 31, 1924, amount in the aggregate to	943,111.66	
A balance of		$251,311.05
Which balance represents:—		
(a) Grant funds in the hands of the Commission at October 31, 1924, to apply against certain rural power districts in course of construction, extensions to existing districts, and the transfer of certain existing "rural lines" to "rural power districts"	$267,010.62	
Less:—		
(b) Grants (or balances thereof) payable by the Province to the Commission in respect of certain rural power districts completed and in operation	15,699.57	
		$251,311.05

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing Grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 1D1	Niagara	Niagara (all)	42,798.03	.....	32,335.07	10,462.96	21,399.02	Sept. 20, 1921	3,190.00	3,190.00
								Sept. 19, 1923	10,154.53	10,154.53
								July 2, 1924	2,005.00	2,005.00
								Oct. 31, 1924	9,862.52	9,862.52
									25,212.05	25,212.05
N 1D2	Homer	Grantham (part)	9,750.10	9.76	4,561.20	5,179.14	4,870.17	July 25, 1922	583.86	583.86
								Dec. 20, 1922	1,054.21	1,054.21
								Mar. 2, 1923	13,851.47	13,851.47
								Aug. 21, 1923	130.27	130.27
								Jan. 2, 1924	686.49	686.49
								Feb. 14, 1924	237.99	237.99
								Oct. 31, 1924	10,137.03	10,137.03
									26,681.32	*a* 26,681.32
N 1D3	Jordan	Louth (part) Grantham (part) Thorold (part)	28,236.77	.....	19,308.51	8,928.26	14,118.39	June 23, 1922	1,461.54	1,461.54
								June 23, 1922	4,410.43	4,410.43
								Dec. 20, 1922	694.77	694.77
								Mar. 2, 1923	1,385.59	1,385.59
								April 23, 1923	335.96	335.96
								Sept. 12, 1923	108.53	108.53

								Nov. 16, 1923	77.47	77.47
								Oct. 31, 1924	9,296.58	9,296.58
									17,770.87	17,770.87
N 1D4	Beamsville...	Grimsby N. (part)..	110,389.74	2,606.69	73,289.73	34,493.32	52,237.75	June 23, 1922	35,944.20	35,944.20
		Clinton (all)						April 23, 1923	261.26	261.26
		Louth (part)						May 3, 1923	81.89	81.89
								June 26, 1923	460.95	460.95
								Sept. 12, 1923	746.98	746.98
								Sept. 19, 1923	135.48	135.48
								Jan. 2, 1924	798.06	798.06
								Feb. 14, 1924	180.17	180.17
								July 2, 1924	2,460.00	2,460.00
								Sept. 12, 1924	1,037.00	1,037.00
								Sept. 12, 1924	1,022.00	1,022.00
								Oct. 31, 1924	13,700.28	13,700.28
									56,828.27	56,828.27
N 1D5	Welland.....	Crowland (all).....	86,243.28	7.56	54,688.98	31,546.74	43,117.86	June 23, 1922	427.25	427.25
		Humberstone (part).						July 25, 1922	150.15	150.15
		Thorold (part)						Mar. 2, 1923	1,734.27	1,734.27
		Pelham (part)						Nov. 29, 1923	137.30	137.30
		Wainfleet (part)						July 2, 1924	651.50	651.50
								Oct. 31, 1924	24,745.02	24,745.02
									27,845.49	*b* 27,845.49
N 1D6	Stamford....	Stamford (part)....	16,752.69	1.22	8,046.14	8,705.33	8,375.73	June 23, 1922	3,726.94	3,726.94
		Thorold (part)						Mar. 13, 1923	136.17	136.17
								Mar. 2, 1923	2,136.89	2,136.89
								Oct. 31, 1924	4,302.94	4,302.94
									10,302.94	10,302.94
N 1D7	Chippawa...	Willoughby (part)..	28,232.86	.....	21,592.93	6,639.93	14,116.43	June 23, 1922	6,214.05	6,214.05
		Bertie (part)						Oct. 31, 1924	8,126.90	8,126.90
									14,340.95	14,340.95

a Grant received in respect of rural power districts shown hereon and also in respect of lines in course of transfer from "rural lines" to "rural power districts."

b Application is being made for a further order-in-council.

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 2D1	Dundas.....	Ancaster (part).....	31,688.10	4,972.82	18,988.02	7,727.26	13,357.64	Sept. 20, 1921	3,787.00	3,787.00
		Flamboro W. (part)						Nov. 29, 1921	329.91	329.91
		Beverley (part)						Mar. 2, 1923	14,336.09	14,336.09
								July 2, 1924	314.00	314.00
								Oct. 31, 1924	18,547.18	18,547.18
									37,314.18	*a* 37,314.18
N 2D2	Lynden.....	Ancaster (part).....	31,504.33	251.19	25,418.07	5,835.07	15,626.57	Sept. 20, 1921	4,423.00	4,423.00
		Beverley (part)						Sept. 20, 1921	4,423.00	4,423.00
								Aug. 21, 1923	6,924.12	6,924.12
								Jan. 22, 1924	210.68	210.68
								July 2, 1924	117.00	117.00
								Oct. 31, 1924	81.49	81.49
									16,179.29	16,179.29
N 2D3	Waterdown..	Flamboro E. (part)..	13,332.38	3,350.43	6,585.50	3,396.45	4,990.98	June 23, 1922	1,614.40	1,614.40
								Mar. 2, 1923	4,486.75	4,486.75
								Mar. 13, 1923	44.89	44.89
								Aug. 21, 1923	2,404.58	2,404.58
								Aug. 21, 1923	566.19	566.19
								Oct. 12, 1923	565.27	565.27
								Nov. 16, 1923	53.42	53.42

								July 2, 1924	1,748.58	1,748.58
								Oct. 31, 1924	6,669.59	6,669.59
									18,153.67	*a* 18,153.67
N 2D7	Barton.....	Barton (part).....	8,768.80	36.55	4,896.79	3,835.46	4,366.12	Nov. 29, 1923	2,137.16	2,137.16
		Glanford (part)						Sept. 12, 1924	2,210.50	2,210.50
		Ancaster (part)						Oct. 31, 1924	2,316.40	2,316.40
									6,664.06	6,664.06
N 3D1	Markham...	Markham (part)....	21,090.75	.....	14,088.74	7,002.01	10,545.37	June 23, 1922	6,071.48	6,071.48
		Scarboro (part)						Aug. 1, 1923	291.95	291.95
								Oct. 31, 1924	4,295.60	4,295.60
									10,659.03	10,659.03
N 3D2	Scarborough.	Scarborough (part).	8,292.87	.....	5,258.06	3,034.81	4,146.44	Sept. 19, 1923	2,325.68	2,325.68
								Nov. 16, 1923	16.10	16.10
								Jan. 2, 1924	380.28	380.28
								Mar. 1, 1924	154.76	154.76
								Oct. 31, 1924	1,545.69	1,545.69
									4,422.51	4,422.51
N 3D3	Bond Lake...	King (part).....	39,211.63	.....	14,273.75	24,937.88	19,605.81	Nov. 16, 1923	485.28	485.28
		Vaughan (part)						Nov. 16, 1923	1,665.04	1,665.04
		Markham (part)						Jan. 22, 1924	1,094.05	1,094.05
		Whitchurch (part)						Mar. 1, 1924	4,155.59	4,155.59
								July 2, 1924	266.57	266.57
								Oct. 31, 1924	16,938.13	16,938.13
									24,604.66	24,604.66
N 3D4	Newmarket..	Whitchurch (part)..	2,371.45	.....	.....	2,371.45	1,185.72	July 2, 1924	6.67	6.67
		King (part)						Oct. 31, 1924	1,712.67	1,712.67
									1,719.34	1,719.34

a Grant received in respect of rural power districts shown hereon and also in respect of lines in course of transfer from "rural lines" to "rural power districts."

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 3D5	Keswick.....	Gwillimbury N. (pt.) Georgina (part)	21,670.03	.....	6,774.65	14,895.38	10,835.02	Nov. 16, 1923	568.47	568.47
								Jan. 2, 1924	957.67	957.67
								July 2, 1924	65.45	65.45
								Sept. 12, 1924	901.00	901.00
								Oct. 31, 1924	9,184.25	9,184.25
									11,676.84	11,676.84
N 3D6	Mount Joy..	Markham (part).... Pickering (part) Whitchurch (part) Uxbridge (part)	925.93	.....	.....	925.93	462.97	Oct. 31, 1924	550.34	550.34
N 3D7	Lansing.....	Vaughan (part).... Scarborough (part) York North (part)	28,939.23	1,099.50	14,899.05	12,940.68	13,919.86	Jan. 2, 1924	1,494.19	1,494.19
								Feb. 14, 1924	230.46	230.46
								Mar. 1, 1924	801.12	801.12
								May 29, 1924	83.40	83.40
								May 29, 1924	443.90	443.90
								July 2, 1924	259.29	259.29
								Sept. 12, 1924	1,258.50	1,258.50
								Oct. 30, 1924	634.00	.....
								Oct. 31, 1924	11,860.23	11,860.23
									17,065.09	16,431.09

N 4D1	Dorchester...	Nissouri West (part) Nissouri East (part) Oxford North (part) Dorchester N. (pt.) Dorchester S (pt.) Westminster (part) Yarmouth (part) London (part)	67,048.16	182.87	42,648.03	24,217.26	33,432.65	Sept. 20, 1921 Mar. 13, 1923 Mar. 2, 1923 Aug. 21, 1923 Aug. 21, 1923 Sept. 19, 1923 Nov. 16, 1923 July 2, 1924 Oct. 30, 1924 Oct. 31, 1924	18,933.00 95.25 853.09 1,755.72 865.74 287.30 64.43 1,502.00 1,387.50 12,078.03	18,933.00 95.25 853.09 1,755.72 865.74 287.30 64.43 1,502.00 ..... 12,078.03
									37,822.06	36,434.56
N 4D2	London.....	London (part)..... Westminster (part)	117,055.19	17,985.26	51,947.65	47,122.28	49,534.96	July 25, 1922 Mar. 13, 1923 Mar. 22, 1923 May 3, 1923 Aug. 21, 1923 Sept. 12, 1923 Jan. 2, 1924 Jan. 2, 1924 Jan. 2, 1924 July 2, 1924 Sept. 12, 1924 Sept. 12, 1924 Sept. 12, 1924 Oct. 30, 1924 Oct. 30, 1924 Oct. 30, 1924 Oct. 30, 1924 Oct. 31, 1924	2,952.49 85.62 3,430.60 1,189.36 10,910.43 612.91 210.68 537.21 159.61 21,266.60 807.89 183.50 386.00 2,629.00 531.50 797.00 5,333.12 15,862.99	2,952.49 85.62 3,430.60 1,189.36 10,910.43 612.91 210.68 537.21 159.61 21,266.60 807.89 183.50 386.00 .... 15,862.99
									67,886.51	58,595.89
N 4D3	Delaware....	Caradoc (part)..... Delaware (all) London (part) Ekfrid (part) Lobo (part)	36,871.52	.....	24,290.18	12,581.34	18,435.76	July 25, 1922 July 25, 1922 June 26, 1923 Aug. 21, 1923 Sept. 12, 1923 Jan. 2, 1924 Oct. 31, 1924	4,862.93 5,881.09 246.46 198.16 1,023.04 96.32 6,332.98	4,862.93 5,881.09 246.46 198.16 1,023.04 96.32 6,332.98
									18,640.98	18,640.98

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 4D5	Lucan							Oct. 31, 1924	166.63	*c* 166.63
N 4D6	Exeter	Hay (part) Stephen (part) Usborne (part)	21,946.91		15,361.65	6,585.26	10,973.46	July 25, 1922 Sept. 27, 1922 Oct. 31, 1922	6,674.99 369.67 4,044.57	6,674.99 369.67 4,044.57
									11,089.23	11,089.23
N 5D1	Acton							Nov. 16, 1923 Oct. 31, 1924	125.68 89.45	125.68 89.45
									215.13	*d* 215.13
N 5D2	Georgetown	Esquesing (part)	6,108.29	6,108.29				July 2, 1924	3,353.23	3,353.23
N 5D3	Guelph	Puslinch (part)	0.62	0.62				Sept. 12, 1924 Oct. 30, 1924	2,271.00 2,722.50	2,271.00
									4,993.50	*d* 2,271.00
N 6D1	Preston	Waterloo (part)	76,874.52		50,601.19	26,273.33	38,437.26	June 23, 1922 July 25, 1922 Mar. 2, 1923 Mar. 13, 1923	329.92 1,109.33 15,213.92 5,827.23	329.92 1,109.33 15,213.92 5,827.23

								Mar. 13, 1923	220.36	220.36
								Aug. 21, 1923	2,128.87	2,128.87
								Sept. 19, 1923	500.89	500.89
								Sept. 12, 1924	225.50	225.50
								Sept. 12, 1924	105.00	105.00
								Sept. 12, 1924	105.00	105.00
								Oct. 31, 1924	14,806.32	14,806.32
									40,572.34	40,572.34
N 6D2	Galt.....	Dumfries N. (part) .	6,735.30	.....	4,114.15	2,621.15	3,367.65	June 23, 1922	2,050.85	2,050.85
								Aug. 21, 1923	110.50	110.50
								Oct. 31, 1924	1,211.53	1,211.53
									3,372.88	3,372.88
N 7D1	Baden.....	Wilmot (all).....	12,871.42	.....	7,721.30	5,150.12	6,435.71	Aug. 21, 1923	1,416.67	1,416.67
								Mar. 2, 1923	3,733.63	3,733.63
								Oct. 31, 1924	1,277.35	1,277.35
									6,427.65	*b* 6,427.65
N 7D2	St. Jacobs...	Woolwich (part) ... Wellesley (part)	37,155.58	.....	23,968.87	13,186.71	18,577.79	July 25, 1922	2,561.34	2,561.34
								Mar. 2, 1923	2,224.48	2,224.48
								Sept. 19, 1923	7,018.89	7,018.89
								Mar. 1, 1924	3,649.57	3,649.57
								July 2, 1924	107.32	107.32
								July 2, 1924	263.50	263.50
								Oct. 31, 1924	11,535.96	11,535.96
									27,361.06	27,361.06
N 8D1	Tavistock...	Easthope N. (part) .	10,292.54	.....	7,403.56	2,888.98	5,146.27	Sept. 27, 1922	2,670.83	2,670.83
								Oct. 31, 1924	2,374.02	2,374.02
									5,044.85	*b* 5,044.85
N 8D2	Goderich....	.....	.....	.....	.....	.....	.....	Mar. 2, 1923	1,401.53	1,401.53
								Oct. 31, 1924	603.65	603.65
									2,005.18	*c* 2,005.18

b Application is being made for a further order-in-council.
c Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."
d Grant received in respect of a rural power district to be constructed.

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 8D3	Walton.....	Morris (part).....	1,552.04	1,552.04	.....	.....	.....	Sept. 12, 1924	832.14	832.14
		Grey (part)								
		McKillop (part)								
N 8D4	Stratford....	Downie (part).....	8,301.97	103.15	4,503.08	3,695.74	4,099.41	Mar 2, 1923	1,835.25	1,835.25
								Oct. 31, 1924	2,951.61	2,951.61
									4,786.86	4,786.86
N 10D1	Norwich.....	Norwich N. (part)..	.....	.....	.....	.....	.....	Mar. 2, 1923	14,768.43	14,768.43
								Mar. 22, 1923	2,801.05	2,801.05
								Oct. 31, 1924	9,636.54	9,636.54
									27,206.02	*c* 27,206.02
N 10D2	Woodstock...	Oxford East (part)..	91,855.46	.....	62,755.09	29,100.37	45,927.73	June 23, 1922	20,736.21	20,736.21
		Oxford West (part)						July 25, 1922	7,980.20	7,980.20
		Zorra East (part)						Dec. 27, 1922	71.00	71.00
		Blandford (part)						Dec. 27, 1922	246.65	246.65
								Mar. 2, 1923	2,156.93	2,156.93
								Mar. 22, 1923	1,919.08	1,919.08
								Aug. 21, 1923	145.10	145.10
								Oct. 31, 1924	13,386.48	13,386.48
									46,641.65	46,641.65

N 10D3	Ingersoll....	Dorchester N. (pt.). Dereham (part) Oxford, West (part)	822.46	.....	642.55	179.91	411.23	Mar. 2, 1923	321.27	321.27
								Oct. 31, 1924	89.96	89.96
									411.23	411.23
N 10D4	Tillsonburg..	Middleton (part)...	12,327.87	.....	7,716.07	4,611.80	6,163.93	Mar. 2, 1923	14,621.75	14,621.75
								Apr. 23, 1923	3,642.02	3,642.02
								Oct. 31, 1924	14,680.21	14,680.21
									32,943.98	*c* 32,943.98
N 11D1	St. Thomas..	Yarmouth (part)... Southwold (part)	70,823.68	.....	45,240.44	25,583.24	35,411.84	Mar. 2, 1923	3,442.14	3,442.14
								Aug. 1, 1923	18,814.31	18,814.31
								Aug. 21, 1923	1,500.34	1,500.34
								Nov. 29, 1923	294.34	294.34
								Jan. 2, 1924	44.68	44.68
								Oct. 31, 1924	13,966.01	13,966.01
									38,061.82	38,061.82
N 11D2	Aylmer.....	Dorchester S. (pt.).. Malahide (part) Yarmouth (part)	13,339.94	58.92	9,202.22	4,078.80	6,640.51	Nov. 16, 1923	3,561.79	3,561.79
								Mar. 2, 1923	1,502.23	1,502.23
								July 2, 1924	1,926.80	1,926.80
								Oct. 31, 1924	1,356.30	1,356.30
									8,347.12	8,347.12
N 12D1	Brant.....	Brantford (part) ... Dumfries S. (part)	26,351.10	.....	16,525.80	9,825.30	13,175.55	June 23, 1922	13,078.43	13,078.43
								July 25, 1922	177.42	177.42
								Mar. 2, 1923	1,355.72	1,355.72
								Aug. 21, 1923	383.07	383.07
								Jan. 22, 1924	88.11	88.11
								Jan. 22, 1924	736.78	736.78
									15,819.53	15,819.53
N 12D3	Waterford...	Townsend.....	4,723.56	.....	4,617.06	106.50	2,361.78	Mar. 2, 1923	1,899.93	1,899.93
								Aug. 1, 1923	102.50	102.50
								Oct. 31, 1924	1,181.73	1,181.73
									3,184.16	3,184.16

c Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 12D5	Drumbo.....	Blenheim (part)....	12,988.57	.....	8,378.13	4,610.44	6,494.28	June 23, 1922	4,451.73	4,451.73
		Blandford (part)						July 25, 1922	183.53	183.53
								Oct. 31, 1924	1,948.49	1,948.49
									6,583.75	6,583.75
N 12D6	Simcoe.....	Woodhouse (part)..	2,428.12	.....	752.70	1,675.42	1,214.06	Sept. 27, 1922	200.58	200.58
								Oct. 31, 1924	1,036.99	1,036.99
									1,237.57	1,237.57
N 13D1	Streetsville...	Toronto (part).....	2,069.65	11.20	1,767.64	290.81	1,029.23	July 25, 1922	865.76	865.76
								Oct. 31, 1924	178.46	178.46
									1,044.22	1,044.22
N 13D2	Brampton...	Chinguacousy (pt.).	2,547.94	.....	1,647.08	900.86	1,273.97	Mar. 2, 1923	294.44	294.44
		Toronto (part)						June 26, 1923	960.73	960.73
								Oct. 31, 1924	679.80	679.80
									1,934.97	1,934.97

N 14D1	Chatham....	Raleigh (part).....	45,727.52	1,044.66	30,244.86	14,438.00	22,341.43	Nov. 29, 1921	9,906.83	9,906.83
		Harwich (part)						June 23, 1922	901.95	901.95
		Dover (part)						July 25, 1922	747.08	747.08
								Sept. 27, 1922	729.85	729.85
								Mar. 2, 1923	321.36	321.36
								Apr. 23, 1923	1,983.06	1,983.06
								Aug. 1, 1923	1,146.45	1,146.45
								Aug. 21, 1923	2,329.63	2,329.63
								May 29, 1924	2,820.86	2,820.86
								Oct. 31, 1924	5,778.80	5,778.80
									26,665.87	26,665.87
N 14D2	Ridgetown...	Howard (part).....	40,066.38	.....	28,118.19	11,948.19	20,033.19	Sept. 20, 1921	3,787.00	3,787.00
		Orford (part)						June 23, 1922	7,442.73	7,442.73
		Harwich (part)						June 23, 1922	743.60	743.60
								July 25, 1922	5,071.92	5,071.92
								Oct. 31, 1924	3,056.94	3,056.94
									20,102.19	20,102.19
N 14D3	Blenheim....	Harwich (part).....	7,784.37	589.72	3,840.57	3,354.08	3,597.32	Mar. 12, 1923	4,631.36	4,631.36
		Raleigh (part)						Aug. 1, 1923	337.87	337.87
								Sept. 12, 1924	1,013.50	1,013.50
								Oct. 31, 1924	3,477.41	3,477.41
									9,460.14	9,460.14
N 14D4	Sarnia.....	Sarnia (part)	21,416.77	1,699.90	7,693.68	12,023.19	9,858.43	Mar. 13, 1923	3,080.67	3,080.67
		Moore (part)						June 26, 1923	3,371.49	3,371.49
								Sept. 12, 1923	1,501.34	1,501.34
								Jan. 2, 1924	478.83	478.83
								July 2, 1924	1,398.00	1,398.00
								Oct. 31, 1924	6,359.78	6,359.78
									16,190.11	16,190.11
N 14D5	Petrolia.....	Sarnia (part)	3,126.77	.....	1,613.88	1,512.89	1,563.38	June 26, 1923	821.51	821.51
								May 29, 1924	271.84	271.84
								Oct. 31, 1924	592.33	592.33
									1,685.63	1,685.68

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 14D6	Forest.....	Bosanquet (part)...	.....	.....	.....	.....	.....	June 23, 1922	107.12	107.12
								Oct. 31, 1924	89.96	89.96
									197.08	*d* 197.08
N 14D10	Bothwell....	Ekfrid (part).....	1,180.11	.....	531.66	648.45	590.06	May 3, 1923	331.80	331.80
		Mosa (part)						Oct. 31, 1924	268.65	268.65
									600.45	600.45
N 14D13	Wallaceburg.	Dover East (part)..	52,865.39	.....	38,669.08	14,196.31	26,432.69	June 23, 1922	9,390.55	9,390.55
		Chatham (part)						Aug. 1, 1923	8,132.26	8,132.26
		Sombra (part)						May 29, 1924	1,657.20	1,657.20
								Oct. 31, 1924	9,543.70	9,543.70
									28,723.71	28,723.71
N 14D14	Tilbury.....	Tilbury East	396.09	.....	68.62	327.47	198.05	Aug. 21, 1923	91.45	91.45
		Tilbury North						Oct. 31, 1924	153.32	153.32
									244.77	244.77

N 15D1	Sandwich....	Sandwich W. (part) Sandwich E. (part) Sandwich S. (part)	70,914.03	8,597.76	25,570.04	36,746.23	31,158.13	Sept. 20, 1921	5,685.00	5,685.00
								Mar. 2, 1923	7,480.14	7,480.14
								June 26, 1923	709.64	709.64
								Aug. 1, 1923	658.41	658.41
								Aug. 21, 1923	96.74	96.74
								Aug. 21, 1923	261.00	261.00
								Sept. 12, 1923	229.84	229.84
								Jan. 2, 1924	1,569.15	1,569.15
								May 29, 1924	187.79	187.79
								May 29, 1924	55.10	55.10
								Sept. 12, 1924	901.40	901.40
								Sept. 12, 1924	11,351.50	11,351.50
								Oct. 30, 1924	1,157.00	.....
								Oct. 30, 1924	489.50	.....
								Oct. 31, 1924	15,245.31	15,245.31
									46,077.52	44,431.02
N 15D2	Belle River..	Rochester (part)...	26,791.73	.....	17,471.09	9,320.64	13,395.86	July 25, 1922	8,124.50	8,124.50
		Maidstone (part)						Oct. 31, 1924	5,450.03	5,450.03
									13,574.53	13,574.53
N 15D3	Amherstburg.	Malden (part).....	15,912.48	.....	8,824.79	7,087.69	7,956.24	Sept. 12, 1924	2,204.61	2,204.61
		Anderdon (part)						Jan. 2, 1924	465.03	465.03
								July 2, 1924	3,430.50	3,430.50
								Oct. 31, 1924	2,083.49	2,083.49
									8,183.63	8,183.63
N 15D4	Harrow.....	Colchester S. (pt.)..	720.08	.....	211.82	508.26	360.04	July 2, 1924	379.60	379.60
N 15D5	Kingsville...	Gosfield S. (part)	25,381.39	.....	13,974.43	11,406.96	12,690.70	Mar. 2, 1923	2,606.29	2,606.29
								May 3, 1923	2,529.99	2,529.99
								Aug. 21, 1923	245.71	245.71
								Nov. 16, 1923	1,030.82	1,030.82
								July 2, 1924	2,249.00	2,249.00
								Sept. 12, 1924	529.13	529.13
								Oct. 31, 1924	8,205.18	8,205.18
									17,396.12	17,396.12

d Grant received in respect of a rural power district to be constructed.

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
N 15D6	Leamington..	Gosfield S. (part) .. Mersea (part)	22,195.98	.....	9,037.17	13,158.81	11,097.99	Mar. 2, 1923	3,798.92	3,798.92
								Nov. 16, 1923	1,008.44	1,008.44
								Nov. 16, 1923	Cr. 240.45	Cr. 240.45
								Sept. 12, 1924	564.02	564.02
								Oct. 31, 1924	6,713.81	6,713.81
									11,844.74	11,844.74
N 16D1	Woodbridge..	Vaughan (part)....	13,958.39	2,561.29	7,779.65	3,617.45	5,698.55	Mar. 2, 1923	11,532.00	11,532.00
								Mar. 13, 1923	1,356.38	1,356.38
								July 2, 1924	219.50	219.50
								July 2, 1924	2,483.53	2,483.53
								Sept. 12, 1924	2,360.00	2,360.00
								Oct. 31, 1924	7,828.80	7,828.80
									25,780.21	*a* 25,780.21
N 16D2	Bolton.....	Albion (part).....	1,556.35	.....	1,269.93	286.42	778.18	Mar. 2, 1923	737.55	737.55
								July 2, 1924	995.50	995.50
								Oct. 31, 1924	2,672.37	2,672.37
									4,405.42	*c* 4,405.42

N 17D1	Saltfleet.....	Saltfleet (all) ..... Grimsby N. (part) Barton (part)	158,283.34	131.60	105,432.69	52,719.05	79,075.87	Sept. 20, 1921	39,100.00	39,100.00
								Mar. 13, 1923	294.77	294.77
								May 3, 1923	344.80	344.80
								Oct. 12, 1923	331.14	331.14
								Nov. 16, 1923	184.07	184.07
								Nov. 29, 1923	1,592.47	1,592.47
								Jan. 22, 1924	275.24	275.24
								Oct. 30, 1924	225.00	.....
								Oct. 31, 1924	38,681.49	38,681.49
									81,028.98	80,803.98
	Totals.....	.....	1,681,568.55	52,963.00	1,017,161.78	611,443.77	812,648.99		1,058,517.90	1,042,611.78

GEORGIAN BAY SYSTEM

(Combining Systems formerly known as Severn, Eugenia and Wasdells)

S 1D1	Midland.....	.....	.....	.....	.....	.....	.....	Nov. 29, 1923	375.35	375.35
								Oct. 31, 1924	168.53	168.53
									543.88	*d* 543.88
S 4D1	Barrie.....	Oro (part).....	8,321.33	.....	5,535.83	2,785.50	4,160.67	Sept. 27, 1922	2,846.56	2,846.56
								Aug. 21, 1923	178.79	178.79
								Oct. 31, 1924	1,386.63	1,386.63
									4,411.98	4,411.98
S 5D1	Nottawasaga.	Nottawasaga (part).	15,058.56	.....	9,319.33	5,739.23	7,529.28	Nov. 29, 1921	4,925.00	4,925.00
								Oct. 31, 1924	2,564.51	2,564.51
									7,489.51	*b* 7,489.51
S 7D1	Elmvale.....	Flos (part).....	1,434.38	.....	.....	1,434.38	717.19	Oct. 31, 1924	636.90	*b* 636.90
S 10D1	Stayner.....	Nottawasaga (part). Sunnidale (part) Flos (part)	17,269.74	.....	11,116.84	6,152.90	*e*	.....	*e*	*e*

a Grant received in respect of rural power districts shown hereon and also in respect of lines in course of transfer from "rural lines" to "rural power districts."

c Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."

d Grant received in respect of a rural power district to be constructed.

b Application is being made for a further order-in-council.

e Summer resorts—No government grant applied for.

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

GEORGIAN BAY SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
E 1D1	Flesherton...	Artemesia (part)...	2,641.51	.....	1,736.03	905.48	1,320.75	Nov. 29, 1921	357.42	357.42
								Aug. 21, 1923	491.11	491.11
								Oct. 31, 1924	481.52	481.52
									1,330.05	1,330.05
E 1D2	Markdale....	Artemesia (part)...	1,325.86	.....	789.26	536.60	662.93	Mar. 2, 1923	394.63	394.63
								Oct. 31, 1924	301.04	301.04
									695.67	695.67
E 15D1	Tara.....	.....	.....	.....	.....	.....	.....	Oct. 31, 1924	267.68	*d* 267.68
E 23D1	Wroxeter....	.....	.....	.....	.....	.....	.....	Sept. 20, 1921	3,787.00	3,787.00
								Oct. 31, 1924	1,167.00	1,167.00
									d 4,954.00	*d* 4,954.00
E 24D1	Lucknow....	.....	.....	.....	.....	.....	.....	Oct. 31, 1924	172.55	*c* 172.55
E 24D2	Ripley.....	Kinloss (part).....	.....	.....	.....	.....	.....	Oct. 31, 1924	68.69	*c* 68.69

E 26D1	Walkerton Quarry	Brant (part).....	2,104.91	.....	1,767.67	337.24	1,052.46	Nov. 29, 1921	415.86	415.86
								Aug. 21, 1923	503.71	503.71
								Oct. 31, 1924	117.15	117.15
									1,036.72	1,036.72
W 3D1	Cannington No. 1	Brock (part)..... Eldon (part)	4,225.57	.....	2,323.65	1,901.92	2,112.78	Nov. 29, 1921	784.88	784.88
								Mar. 2, 1923	753.86	753.86
								Oct. 31, 1924	778.99	778.99
									2,317.73	2,317.73
W 3D2	Cannington No. 2	Brock (part).....	3,920.34	.....	2,104.15	1,816.19	1,960.17	Nov. 29, 1921	209.30	209.30
								Mar. 2, 1923	1,021.01	1,021.01
								Oct. 31, 1924	1,984.43	1,984.43
									3,214.74	3,214.74
W 6D1	Kirkfield....	.....	.....	.....	.....	.....	.....	July 2, 1924	3,210.50	*d* 3,210.50
W 7D2	Port Perry...	Reach (part).....	789.43	.....	202.67	586.76	394.72	Oct. 31, 1924	442.14	442.14
W 9D1	Mariposa....	Brock (part)..... Mariposa (part)	30,375.77	.....	22,236.78	8,138.99	15,187.89	Mar. 22, 1923	12,050.44	12,050.44
								Oct. 30, 1924	412.39	.....
								Oct. 31, 1924	3,467.94	3,467.94
									15,930.77	15,518.38
	Total Georgian Bay System.....		87,467.40	.....	57,132.21	30,335.19	35,098.84	.....	46,723.51	46,311.12
					ST. LAWRENCE SYSTEM					
L 2D1	Prescott.....	Augusta (part)..... Edwardsburg (part)	25,763.73	.....	20,145.63	5,618.10	12,881.86	Sept. 20, 1921	9,467.00	9,467.00
								Mar. 13, 1923	93.87	93.87
								Oct. 31, 1924	3,374.21	3,374.21
									12,935.08	12,935.08
L 3D1	Brockville...	Elizabethtown (pt.) Augusta (part)	19,188.25	.....	17,022.69	2,165.56	9,594.13	June 23, 1922	1,188.66	1,188.66
								Mar. 2, 1923	6,384.96	6,384.96
								Jan. 22, 1924	209.53	209.53
								Oct. 31, 1924	1,850.42	1,850.42
									9,633.57	9,633.57

d Grant received in respect of a rural power district to be constructed.
c Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."

RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

ST. LAWRENCE SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			$ c.	$ c.	$ c.	$ c.	$ c.		$ c.	$ c.
L 5D1	Chesterville..	Winchester (part)..	4,155.50	.....	3,511.25	644.25	2,077.75	June 23, 1922	1,689.21	1,689.21
								Mar. 2, 1923	160.60	160.60
								Mar. 13, 1923	55.00	55.00
								Aug. 21, 1923	1,023.15	1,023.15
								Oct. 31, 1924	Cr. 760.41	Cr. 760.41
									2,167.55	2,167.55
L 7D1	Williamsburg	Williamsburg (part)	486.34	.....	352.56	133.78	243.17	Jan. 22, 1924	157.49	157.49
								Oct. 31, 1924	100.68	100.68
									258.17	258.17
L 13D1	Martintown..	Charlottenburg (pt.)	6,651.49	.....	3,379.06	3,272.43	3,325.74	June 23, 1922	168.91	168.91
								Mar. 13, 1923	1,197.03	1,197.03
								Mar. 13, 1923	136.62	136.62
								May 3, 1923	349.20	349.20
								Oct. 31, 1924	1,524.51	1,524.51
									3,376.27	3,376.27
L 14D1	Apple Hill...	Kenyon (part).....	127.17	.....	.....	127.17	63.59	Oct. 31, 1924	76.08	76.08
	Totals—St. L	awrence System....	56,372.48	.....	44,411.19	11,961.29	28,186.24	.....	28,446.72	28,446.72

OTTAWA SYSTEM

T 1D1	Nepean	Nepean (all) Gloucester (part) Gower North (part) Osgoode (part)	46,981.63	7,784.40	30,195.14	9,002.09	19,598.62	Sept. 20, 1921 Nov. 29, 1921 June 23, 1922 Dec. 27, 1922 Mar. 13, 1923 July 2, 1924 Oct. 31, 1924	7,573.00 3,588.42 4,136.58 147.55 168.81 6,156.66 4,354.74	7,573.00 3,588.42 4,136.58 147.55 168.81 6,156.66 4,354.74
	Totals—Ottawa System		46,981.63	7,784.40	30,195.14	9,002.09	19,598.62		26,125.76	26,125.76

CENTRAL ONTARIO SYSTEM

C 11D1	Campbellford	Seymour (part)	13,931.33	.....	10,761.13	3,170.20	6,965.67	July 2, 1924 July 2, 1924 Oct. 31, 1924	6,806.33 3,311.50 1.96	6,806.33 3,311.50 1.96
									10,119.79	10,119.79
C 18D1	Lakefield	.....	.....	.....	.....	.....	.....	July 2, 1924	336.50	*d* 336.50
C 23D1	Bowmanville	Darlington (part)	720.18	.....	521.02	199.16	360.09	Nov. 16, 1923 Oct. 31, 1924	275.70 107.84	275.70 107.84
									383.54	383.54
C 24D1	Oshawa	Whitby East (all) Whitby West (all) Pickering (all)	52,531.09	.....	29,990.77	22,540.32	26,265.54	Mar. 2, 1923 Oct. 31, 1924	15,904.78 10,366.09	15,904.78 10,366.09
									26,270.87	26,270.87
C 37D1	Trenton	Murray (part)	705.84	.....	597.58	108.26	352.92	Nov. 29, 1923 Oct. 31, 1924	296.54 67.26	296.54 67.26
									363.80	363.80
C 44D1	Kingston	Kingston (part)	27,269.50	.....	20,052.20	7,217.30	13,634.75	Sept. 27, 1922 Apr. 23, 1923 Nov. 29, 1923 Oct. 30, 1924 Oct. 31, 1924	2,026.45 3,860.26 1,330.68 156.00 6,235.44	2,026.45 3,860.26 1,330.68 ..... 6,235.44
									13,608.83	*b* 13,452.83
	Totals—Central Ontario System		95,157.94	.....	61,922.70	33,235.24	47,578.97	.....	51,083.33	50,927.33

d Grant received in respect of a rural power district to be constructed.
b Application being made for a further order-in-council.

SECTION X

MUNICIPAL ACCOUNTS

The Municipal Accounts section of this report presents the results of the operation of the various Hydro systems from a municipal standpoint collectively and individually. Statements prepared from figures extracted from the books of all Hydro municipalities are submitted herein to show how each has operated during the past year; also the financial status at the present time; as well as much useful statistical information, all so arranged as to permit of comparisons being made between various systems and between different municipalities in each system.

The books of account in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with the provisions set forth in the publication "Uniform Accounting for Municipal Electric Utilities," issued by the Commission. The Commission, by a system of periodical inspections and reports, keeps in close touch with the operating conditions of each local system.

During the year 1924, the uniform accounting system was installed in the following municipalities as each became ready for the service: Blyth, Brussels, Clifford, Courtright, Erieau, Essex, Harrow, Humberstone, Jarvis, Kingsville, Leamington, Meaford, North York Township, Sandwich, Trafalgar Township, Wheatley.

Periodical inspections were made of the books of all Hydro municipalities, and local officials have been assisted in the improvement of their office routine with a view to standardizing as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping is performed by representatives of the Municipal Audit department, in order to insure the employment of proper classifications of revenue and expenditures, to save time in preparation of reports, to insure compliance with all the requirements of the standard accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this preface presents consolidated operating reports for each year since Hydro was inaugurated and combines the results of all the systems. Study of this report will show that the revenue has been increasing to a most satisfactory degree. The annual surpluses, after providing all possible cost of operation, including an adequate depreciation charge, have increased, until in 1924, the combined annual surpluses amounted to $1,163,910.10, an increase of over six per cent over the best previous year, 1923.

The second statement presents consolidated balance sheets for each year since 1912, and also shows clearly the march of progress. It is worth noting that the total plant value has increased from $10,081,469.16 in 1913 to $53,839,097.93 in 1924, and the total assets from $11,907,826.86 to $72,753,596.31. The liabilities have not increased in the same proportion as the assets, rising from $10,468,351.79 to $43,065,051.56. The reason for this is that much of the cost of the increasing plant value has been financed out of surplus and reserve accounts without increasing the liabilities of the various systems. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net debt to total assets; being from 88.0 per cent in 1913 to 61.4 per cent in 1924. The equity

in the Hydro-Electric Power Commission system automatically acquired through the inclusion of sinking fund as part of the cost of power is not taken into account in arriving at these percentages.

The seven statements, "A" to "G" following the two consolidated reports show the results of operations and the financial status of each municipal system, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. Some of the figures are comparative for all the years of operation. In the statements "A," "B," and "C," the figures are arranged in groups under each system and alphabetically for the municipalities in each system; in the statements "D" to "G" all "Hydro" municipalities are arranged alphabetically.

Statement "A" shows balance sheets for each municipality with the plant value sub-divided into the general natural sub-divisions specified in the standard accounting system, and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "Equity in Hydro system." These items represent the amount of accumulated Sinking Fund paid by the various municipalities through the medium of "Power Cost" toward the ultimate retirement of the Hydro-Electric Power Commission's construction debt. The total accumulation to the end of 1924 is shown on the Consolidated balance sheet to be $5,420,567.58.

In each case the balance sheet is complete and final, including either in "Accounts receivable," or "Accounts payable" the adjustments with this Commission of the differences between the estimated and the actual costs of power.

The actual liabilities of each local system are set out under their general sub-divisions,—debenture balance, accounts payable, bank overdraft, and other liabilities, this last account including local debentures issued by municipalities to finance ornamental street-lighting systems as local improvements.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission system, are also listed separately and totalled; and under the heading "Surplus" is included not only the free operating profit but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue, which properly belong under this heading.

The "Depreciation reserve" now amounts to 23.4 per cent of the total depreciable plant, while the "Depreciation reserve" and "Surplus" combined have already reached the sum of $24,267,977.17, approximating forty-five per cent of the total plant cost.

Statement "B" is a consolidated condensed operating report, showing the essential figures of each municipal system's operation in such a manner as to facilitate a ready comparison of the various results. The population served by each system, as well as the number of customers and the load taken in December, 1924, are also shown in order to give an idea of the relative sizes of the respective utilities.

Of the 241 municipalities included in this report, a total of nine failed to meet their actual cost of operation without regard to depreciation. A total of sixteen, including the above, failed to provide full theoretical depreciation in addition to all operating and maintenance expenses, but their relative unimportance is clearly disclosed by an examination of the reports. These sixteen municipalities indicate a total theoretical loss of $18,552.30, while the remaining 225 municipali-

ties piled up a surplus of $1,182,462.40, thus leaving a net surplus for all Hydro municipalities of $1,163,910.10 during the year.

Statement "C" shows detailed operating reports for each utility. The cost of power includes the adjustment made by this Commission and hence covers the actual cost and not the cost at the interim billed rates.

Statement "D," in many respects, is the most interesting report in the series. It gives more information respecting the actual results of operation from the viewpoint of the consumer than is obtainable from the published reports of any other system of electric utilities regardless of where operated or whether publicly or privately owned.

This statement "D" shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial service in each municipality since "Hydro" was first installed. For comparative purposes the rates in effect prior to the installation of "Hydro" are also indicated. The average flat-rate cost of horsepower as billed to power customers since 1917 is also shown.

In many municipalities the average monthly bill has increased during the past few years. This is due to the steady increase in the use of better lighting, and the general installation of ranges, heaters and miscellaneous appliances. It is estimated that over 44,000 electric ranges are now in use and the number is increasing rapidly. In practically all municipalities the cost per kilowatt-hour has been steadily declining, due to the constantly increasing use of electric appliances, the adoption of a uniform follow-up rate of two cents per kilowatt-hour for domestic and farm service throughout the province, and the consequently large number of kilowatt-hours consumed at the lower rate.

Statement "E" shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1924 and the cost per capita in each municipality.

Statement "F" and **Statement "G"** present the local rates in use by each utility, and also those charged by the Commission on the interim power bills.

A study of the various reports will clearly show that Hydro business in general, and that of Hydro municipalities in particular, are in a most satisfactory financial condition. There is no criticism of the working out of the economic policies of the Hydro-Electric Power Commission of Ontario which cannot intelligently and satisfactorily be met with direct appeal to the official figures in the balance sheets and operating reports herein presented.

Municipalities Out of Debt

The automatic reduction in the debenture debt, due to the annual principal or sinking fund payments bring provided for out of revenue, and the remarkable accumulation of assets reflect the satisfactory financial condition of the Hydro utilities generally. The tabular statement on the opposite page shows in condensed form the relation of assets to liabilities in sixty-three municipalities. In the first thirty-nine municipalities the quick assets such as cash, bonds, accounts receivable and inventories exceed in value the total liabilities, including the debenture balance, and they may fairly be considered as being out of debt. In the remaining twenty-four municipalities, the excess of liabilities over the quick assets is relatively so small that a number of them will be transferred to the "out-of-debt" list when the books are closed at the end of 1925.

Municipality	Total assets	Total liabilities	Total quick assets	Net balance liabilities over quick assets	Excess of quick assets over all liabilities
	$ c.	$ c.	$ c.	$ c.	$ c.
Acton	42,256.41	4,982.28	6,596.68	.....	1,614.40
Ailsa Craig	16,241.34	3,319.12	4,254.48	.....	935.36
Beachville	27,515.31	3,952.73	12,786.72	.....	8,833.99
Bothwell	20,407.29	5,330.24	10,327.98	.....	4,997.74
Brockville	314,584.32	83,975.75	94,300.45	.....	10,324.70
Chesterville	21,709.65	5,498.38	8,054.87	.....	2,556.49
Coldwater	20,231.69	5,871.56	8,026.30	.....	2,154.74
Collingwood	156,920.52	22,198.81	49,055.92	.....	26,857.11
Creemore	21,487.84	4,214.29	9,563.92	.....	5,349.63
Dorchester	14,912.66	4,680.14	4,926.42	.....	246.28
Dundalk	16,816.30	3,707.30	5,575.72	.....	1,868.42
Elmvale	19,968.95	5,451.10	7,189.46	.....	1,738.36
Exeter	41,350.45	7,993.87	10,959.83	.....	2,965.96
Georgetown	72,926.95	17,195.85	24,172.07	.....	6,976.22
Lucan	26,379.76	8,290.86	8,435.60	.....	144.74
Mitchell	70,670.27	5,386.03	10,062.09	.....	4,676.06
Mt. Brydges	10,868.91	3,469.76	4,435.04	.....	965.28
New Toronto	109,077.39	14,381.41	28,462.28	.....	14,080.87
Norwich	45,887.68	10,244.18	17,020.17	.....	6,775.99
Otterville	12,538.71	3,094.26	4,925.07	.....	1,830.81
Palmerston	67,791.59	11,920.56	14,991.52	.....	3,070.96
Picton	99,035.73	4,527.29	43,923.64	.....	39,396.35
Port Arthur	1,362,847.13	393,093.85	393,546.67	.....	452.82
Prescott	86,712.67	13,010.47	17,988.30	.....	4,977.83
Ridgetown	58,694.71	13,037.12	20,463.31	.....	7,426.19
Rockwood	11,152.23	nil	1,246.55	.....	1,246.55
Rodney	20,995.64	7,359.28	8,251.13	.....	891.85
St. George	16,407.92	5,034.21	9,238.61	.....	4,204.40
Tavistock	26,652.27	6,448.33	8,543.26	.....	2,094.93
Thamesford	15,536.42	3,652.66	5,670.68	.....	2,018.02
Thamesville	28,267.75	8,391.21	11,064.34	.....	2,673.13
Thorold	79,578.40	7,426.67	9,254.02	.....	1,827.35
Tilbury	38,526.47	12,419.72	14,058.13	.....	1,638.41
Tillsonburg	102,122.52	25,742.59	29,438.51	.....	3,695.92
Waterdown	28,162.34	3,561.61	10,503.11	.....	6,941.50
Waterford	28,375.84	nil	7,165.45	.....	7,165.45
West Lorne	24,414.78	8,080.41	9,532.28	.....	1,451.87
Winchester	28,791.03	10,359.45	14,088.02	.....	3,728.57
Woodbridge	25,415.36	8,030.38	8,997.83	.....	967.45
Aylmer	64,170.44	26,224.70	18,657.69	7,567.01	.....
Ayr	22,664.02	5,988.68	5,689.36	299.32	.....
Burgessville	5,993.13	2,405.73	1,876.82	528.91	.....
Delaware	6,531.64	3,242.60	2,912.34	330.26	.....
Dresden	36,254.40	9,356.70	8,735.32	621.38	.....
Durham	47,622.04	20,082.92	17,609.45	2,473.47	.....
Dutton	20,115.20	7,213.90	6,310.99	902.91	.....
Granton	8,265.61	3,124.62	2,731.76	392.86	.....
Hagersville	31,832.18	7,897.42	5,259.70	2,637.72	.....
Highgate	11,282.80	4,281.36	3,716.75	564.61	.....
Huntsville	41,883.25	15,493.92	12,441.31	3,052.61	.....
New Hamburg	47,235.65	13,249.47	10,602.51	2,646.96	.....
Owen Sound	268,680.41	30,987.48	28,967.92	2,019.56	.....
Penetanguishene	99,076.43	30,109.61	25,021.28	5,088.33	.....
St. Thomas	452,718.71	98,696.58	96,442.01	2,254.57	.....
Seaforth	74,540.88	18,153.65	16,325.83	1,827.82	.....
Stayner	30,715.21	9,585.22	8,964.04	621.18	.....
Victoria Harbour	14,269.10	4,611.70	3,310.58	1,301.12	.....
Wallaceburg	164,207.63	67,086.45	35,898.37	11,188.08	.....
Watford	26,099.94	6,771.77	5,882.09	889.68	.....
Waubaushene	8,337.26	2,653.32	2,464.26	189.06	.....
Williamsburg	4,398.93	1,718.56	1,564.12	154.44	.....
Woodville	11,045.76	4,716.96	3,856.59	860.37	.....
Zurich	14,395.73	5,493.51	4,229.12	1,264.39	.....

CONSOLIDATED

Year	1912	1913	1914
Number of municipalities included	28	45	69
Earnings	$ c.	$ c.	$ c.
Domestic light		572,154.38	789,130.81
Commercial light		525,438.16	673,803.92
Commercial power		905,378.17	1,214,829.31
Municipal power			
Street light		560,925.56	698,409.71
Rural			
Miscellaneous		53,543.24	57,482.41
Total earnings	1,617,674.00	2,617,439.51	3,433,656.16
Expenses			
Power purchased		789,632.87	1,045,752.65
Substation operation		78,394.81	97,658.90
Substation maintenance		18,698.46	31,790.99
Distribution system operation and maintenance		104,114.51	130,998.65
Line transformer maintenance		8,547.61	11,764.32
Meter maintenance		5,222.19	9,536 07
Consumers' premises expenses		53,108.38	65,192.23
Street lighting operation and maintenance		84,903.76	113,047.80
Promotion of business		72,303.51	86,683.02
Billing and collecting		77,351.76	103,560.71
General office, salaries and expenses		154,932.69	230,899.75
Undistributed expense		65,423.64	89,350.91
Interest		528,549.21	662,092.34
Sinking fund and principal payments on debentures		*	*
Total expenses	1,377,168.00	2,041,183.40	2,678,328.34
Surplus	240,506.00	576,256.11	755,327.82
Depreciation charge	124,992.47	262,675.24	357,883.31
Surplus less depreciation	115,513.53	313,580.87	397,444.51

*Debenture payments included in "Interest."

OPERATING REPORT

1915	1916	1917	1918	1919	1920
99	128	143	166	181	186
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
944,271.08	1,172,878.96	1,417,460.31	1,632,272.12	1,991,632.31	2,546,345.30
720,209.26	812,130.78	899,023.72	968,399.42	1,175,143.56	1,512,854.63
1,501,797.78	1,921,152.31	2,665,280.65	3,417,248.37	3,443,107.13	3,752,188.22
.....	.....	.....	.....	.....	532,279.09
835,970.87	930,057.48	967,495.10	902,875.55	988,900.95	1,005,535.11
.....	.....	.....	.....	.....	168,919.95
68,046.29	147,381.50	120,805.39	161,243.70	228,270.65	189,778.63
4,070,295.28	4,983,601.03	6,070,065.17	7,082,039.16	7,827,054.60	9,707,900.93
1,485,614.72	1,959,446.83	2,563,880.17	2,807,769.33	3,284,490.68	4,216,667.87
107,607.31	153,761.08	203,091.20	238,257.34	217,638.89	285,407.35
25,935.56	46,131.53	42,129.04	60,805.92	81,853.63	102,050.81
154,409.71	154,247.17	169,326.24	223,347.81	286,310.76	344,551.57
11,508.92	14,528.17	25,328.95	30,488.83	42,509.12	46,323.09
12,899.14	24,218.48	44,461.55	63,155.56	78,726.64	123,701.18
47,494.26	52,602.01	61,765.14	65,149.59	84,301.24	116,283.52
136,983.38	145,471.50	157,857.73	196,157.18	215,963.86	236,930.79
74,402.55	79,324.85	73,516.37	64,962.78	77,789.22	78,294.85
131,541.27	154,508.58	188,083.84	208,660.76	236,504.75	295,942.88
236,777.86	306,709.35	349,932.05	421,680.15	452,131.22	559,695.29
129,209.15	97,333.97	102,938.80	117,474.07	190,690.09	256,400.33
817,978.89	951,781.99	1,085,180.80	1,238,425.53	1,285,571.51	1,431,807.16
*	*	*	*	*	*
3,371,414.00	4,140,065.51	5,077,491.08	5,736,334.85	6,531,481.61	8,094,056.69
698,881.28	843,535.52	992,574.09	1,345,704.31	1,295,572.99	1,613,844.24
414,506.99	486,141.80	607,296.29	718,162.30	814,219.37	902,028.75
284,374.29	357,393.72	385,367.80	627,542.01	481,353.62	711,815.49

*Debenture payments included in "Interest."

CONSOLIDATED OPERATING REPORT—Continued

Year	1921	1922	1923	1924
Number of municipalities included	205	214	224	241
Earnings	$ c.	$ c.	$ c.	$ c.
Domestic light	3,149,080.03	3,786,608.23	5,166,452.24	5,993,231.07
Commercial light	1,851,501.76	2,158,306.34	3,260,772.50	3,566,227.22
Commercial power	3,895,437.46	4,383,912.97	5,927,666.37	6,222,865.88
Municipal power	654,531.01	973,263.38	1,161,598.60	1,352,966.47
Street light	1,060,357.77	1,160,446.81	1,269,604.48	1,356,668.97
Rural	145,566.57	105,877.09	116,639.06	75,100.24
Miscellaneous	225,467.70	187,689.39	316,311.21	231,663.58
Total earnings	10,981,942.30	12,756,104.21	17,219,044.46	18,798,723.43
Expenses				
Power purchased	4,876,650.31	6,636,853.37	8,699,026.67	9,669,789.40
Substation operation	314,838.35	315,443.70	474,442.13	430,056.09
Substation maintenance	104,798.01	100,763.67	133,815.53	202,050.04
Distribution system operation and maintenance	487,918.33	519,252.16	636,477.41	648,700.62
Line transformer maintenance	65,088.46	52,932.26	75,920.10	82,936.50
Meter maintenance	116,722.97	107,806.88	139,104.81	141,231.23
Consumers' premises expenses	134,854.92	143,388.88	218,682.02	237,316.20
Street lighting operation and maintenance	297,481.52	297,363.86	299,579.08	269,973.30
Promotion of business	101,804.46	129,932.63	184,371.00	202,060.74
Billing and collecting	321,685.71	338,153.50	444,306.92	490,273.30
General office, salaries and expenses	656,268.11	605,852.50	937,463.47	889,907.66
Undistributed expense	308,874.42	385,895.03	359,206.91	494,078.50
Interest	998,611.47	1,074,657.44	1,615,205.16	1,779,991.26
Sinking fund and principal payments on debentures	532,183.96	635,469.90	990,907.14	1,122,798.87
Total expenses	9,317,781.00	11,343,765.78	15,208,508.35	16,661,163.71
Surplus	1,664,161.30	1,412,338.43	2,010,536.11	2,137,559.72
Depreciation charge	1,044,434.85	715,814.24	916,782.75	973,649.62
Surplus less depreciation	619,726.45	696,524.19	1,093,753.36	1,163,910.10

CONSOLIDATED BALANCE SHEET

Year	1913	1914	1915
Number of municipalities included	45	69	99
Assets	$ c.	$ c.	$ c.
Lands and buildings	626,707.34	791,732.20	873,838.18
Substation equipment	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground	644,514.24	807,153.53	928,420.77
Line transformers	615,546.20	787,613.52	981,754.70
Meters	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant	1,401,175.28	420,108.33	461,651.60
Old plant	341,277.00	619,513.12	1,184,372.86
Total plant	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance	450,887.97	422,350.12	284,653.96
Securities and investments	.....	.....	.....
Accounts receivable	344,487.95	561,873.08	602,920.69
Inventories	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures	431,747.27	625,217.03	868,983.78
Equity in Hydro system	.....	.....	.....
Other assets	58,959.93	123,410.97	326,801.11
Total assets	11,907,826.86	15,249,203.36	17,683,264.07
Liabilities			
Debenture balance	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft	160,919.16	228,622.50	292,106.44
Other liabilities	42,412.81	113,838.66	37,388.31
Total liabilities	10,468,351.79	12,702,689.81	14,201,343.79
Reserves			
For depreciation	478,145.88	850,618.07	1,337,739.73
For equity in H.E.P.C. system	.....	.....	.....
Total reserves	478,145.88	850,618.07	1,337,739.73
Surplus			
Debentures paid	202,751.26	320,129.10	394,466.22
Local sinking fund	431,747.27	625,217.03	868,983.78
Additional operating surplus	326,830.66	750,549.35	880,730.55
Total surplus	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets	88	83.3	80.3

CONSOLIDATED

Year	1916	1917	1918
Number of municipalities included	128	143	166
Assets	$ c.	$ c.	$ c.
Lands and buildings	1,335,936.33	1,546,241.41	1,859,888.69
Substation equipment	1,934,626.12	2,471,293.82	2,820,448.70
Distribution system—overhead	4,832,353.27	6,080,073.42	6,627,237.39
Distribution system—underground	1,095,709.62	1,157,059.90	1,216,288.59
Line transformers	1,179,132.07	1,483,839.44	1,772,691.35
Meters	1,711,299.49	1,999,095.48	2,238,143.70
Street lighting equipment—regular	1,251,057.13	1,237,734.69	1,200,625.65
Street lighting equipment—ornamental	306,388.95	361,975.74	531,502.61
Miscellaneous construction expenses	2,059,263.42	2,184,015.84	2,395,096.50
Steam or hydraulic plant	864,500.01	896,753.20	214,575.75
Old plant	759,748.66	649,852.51	1,476,413.00
Total plant	17,330,015.07	20,077,935.45	22,352,951.93
Bank and cash balance	1,061,029.90	340,026.50	391,194.91
Securities and investments	.....	.....	.....
Accounts receivable	695,152.23	1,285,097.33	1,124,018.44
Inventories	764,504.59	1,261,398.36	972,996.96
Sinking fund on local debentures	1,166,017.73	1,337,578.96	1,663,298.05
Equity in Hydro system	.....	.....	.....
Other assets	342,215.87	125,240.05	444,787.63
Total assets	21,358,935.39	24,427,276.65	26,949,247.92
Liabilities			
Debenture balance	15,058,641.57	15,593,773.61	17,209,217.70
Accounts payable	969,187.75	1,537,669.11	1,007,727.79
Bank overdraft	178,413.26	886,177.94	576,816.49
Other liabilities	491,874.90	429,104.20	350,013.21
Total liabilities	16,698,117.48	18,446,724.86	19,143,775.19
Reserves			
For depreciation	1,843,804.68	2,463,723.83	3,133,550.17
For equity in H.E.P.C. system	.....	.....	.....
Total reserves	1,843,804.68	2,463,723.83	3,133,550.17
Surplus			
Debentures paid	549,778.59	694,797.90	920,076.56
Local sinking fund	1,165,785.94	1,340,615.38	1,662,602.69
Additional operating surplus	1,101,448.70	1,481,414.68	2,089,243.31
Total surplus	2,817,013.23	3,516,827.96	4,671,922.56
Total liabilities, reserves and surplus	21,358,935.39	24,427,276.65	26,949,247.92
Percentage of net debt to total assets	78.4	75.5	71.0

BALANCE SHEET—Continued

1919	1920	1921	1922	1923	1924
191	195	215	226	235	248
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,995,545.83	2,175,568.24	3,230,985.63	3,334,522.68	4,488,054.93	4,561,648.92
2,915,125.56	3,231,050.80	5,403,689.90	5,046,857.98	6,015,919.75	6,800,238.00
7,445,820.31	8,579,881.49	8,397,361.48	11,165,330.24	13,135,581.76	14,182,190.33
1,206,296.88	1,313,369.29	1,401,135.97	1,598,053.02	1,959,120.41	2,873,446.13
2,073,113.45	2,560,581.59	3,077,649.83	3,618,684.73	4,211,655.89	4,456,669.02
2,587,566.32	3,053,135.20	3,552,076.79	4,033,689.52	4,548,933.73	5,149,629.71
1,206,638.71	1,269,006.98	1,335,997.13	1,419,016.05	1,061,473.85	1,134,491.77
546,497.68	557,678.13	610,586.70	666,084.50	708,431.22	728,298.08
2,430,101.08	2,697,636.12	3,030,134.16	3,261,495.74	3,681,274.88	4,168,262.21
986,200.57	757,194.47	704,848.46	565,158.54	566,619.86	4,196,803.45
805,959.89	864,298.39	912,388.55	7,997,947.87	8,051,496.28	5,587,420.31
24,298,866.28	27,059,400.70	31,656,854.60	42,706,840.87	48,428,562.56	53,839,097.93
462,437.23	943,858.12	900,842.34	1,164,336.24	1,276,140.06	1,748,912.34
627,076.53	341,855.88	556,608.53	443,938.18	1,153,424.47	1,329,622.58
1,921,166.69	2,022,538.88	2,148,287.05	3,874,317.14	3,198,769.34	3,898,751.89
1,032,569.75	1,400,671.89	1,504,596.28	1,738,795.96	1,819,711.62	1,745,628.16
1,925,455.77	2,244,004.34	2,541,718.35	3,416,231.45	3,896,261.28	4,520,723.06
369,071.89	577,584.06	795,570.51	1,543,434.12	2,929,603.94	5,420,567.58
86,216.05	25,447.07	78,929.84	238,940.13	190,071.63	250,292.77
30,722,860.19	34,615,360.94	40,111,979.23	55,126,834.09	62,892,544.90	72,753,596.31
18,133,462.44	19,268,072.04	21,619,220.99	30,454,186.12	33,056,501.29	38,005,162.50
1,420,926.66	1,840,137.54	1,887,567.93	3,699,292.52	3,708,781.76	3,117,224.08
403,235.57	514,671.99	989,099.98	456,706.69	680,714.59	162,100.71
670,271.90	642,293.65	938,368.84	586,203.02	1,517,828.47	1,780,564.27
20,627,896.57	22,265,175.22	25,434,257.74	35,196,388.35	38,963,826.11	43,065,051.56
3,750,162.28	4,788,645.03	5,491,858.93	6,512,813.92	7,328,858.69	8,097,834.68
373,871.89	577,584.06	800,249.05	1,543,434.12	2,929,603.94	5,420,567.58
4,124,034.17	5,366,299.09	6,292,107.98	8,056,248.04	10,258,462.63	13,518,402.26
1,328,657.68	1,440,157.52	1,860,079.53	3,104,591.15	2,852,038.38	3,530,610.35
1,754,020.37	2,246,474.47	2,541,718.35	3,416,231.45	3,896,261.28	4,520,723.06
2,888,251.40	3,297,325.64	3,983,815.63	5,353,375.10	6,921,956.50	8,118,809.08
5,970,929.45	6,983,956.63	8,385,613.51	11,874,197.70	13,670,256.16	16,170,142.49
30,722,860.19	34,615,360.94	40,111,979.23	55,126,834.09	62,892,544.90	72,753,596.31
67.9	65.4	64.7	63.3	62.6	61.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM

Municipality	Acton	Agincourt P.V.	Ailsa Craig	Alvinston	Ancaster Twp.
Population	1,649		514	657	
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	1,545.45	.....	.....	133.56	.....
Substation equipment	1,650.33	.....	.....	.....	.....
Distribution system, overhead	12,767.72	5,597.26	7,085.46	13,701.84	16,780 04
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	7,342.85	1,535.28	2,221 08	3,449.78	5,009.63
Meters	6,099.45	1,264.87	1,807.59	2,970.22	6,756.41
Street lighting equipment, regular	1,133.39	433.93	380.37	1,090.62	806.23
Street lighting equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	1,639.04	.....	492.36	918.68	1,379.46
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	3,481.50	.....	.....	773.85	.....
Total plant	35,659.73	8,831.34	11,986.86	23,038.55	30,731.77
Bank and cash balance	1,412.30	2,673.81	1,337.55	4,121.69	4,537.08
Securities and investments	1,000.00	.....	2,000.00	.....	.....
Accounts receivable	2,192.10	436.81	916.93	1,869.14	679.77
Inventories	1,992.28	.....	.....	20.58	.....
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in Hydro systems	8,282.31	134.12	3,660.49	555.68	1,057.85
Other assets	.....	.....	.....	.....	1,245.38
Total assets	50,538.72	12,076.08	19,901.83	29,605.64	38,251.85
Deficit	.....	.....	.....	.....	.....
Total	50,538.72	12,076.08	19,901.83	29,605.64	38,251.85
Liabilities					
Debenture balance	4,828.04	7,449.56	3,319.12	21,460.86	15,787.84
Accounts payable	.....	368.56	.....	.....	481.79
Bank overdraft	.....	.....	.....	.....	.....
Other liabilities	154.24	.....	.....	.....	1,245.38
Total liabilities	4,982.28	7,818.12	3,319.12	21,460.86	17,515.01
Reserves					
For equity in H.E.P.C. systems	8,282.31	134.12	3,660.49	555.68	1,057.85
For depreciation	7,172.64	241.81	2,856.33	861.00	4,280.63
Total reserves	15,454.95	375.93	6,516.82	1,416.68	5,338.48
Surplus					
Debentures paid	9,671.96	623.09	915.85	2,068.38	1,212.16
Local sinking fund	.....	.....	.....	.....	.....
Additional operating surplus	20,429.53	3,258.94	9,150.04	4,659.72	14,186.20
Total surplus	30,101.49	3,882.03	10,065.89	6,728.10	15,398.36
Total liabilities, reserves & surplus	50,538.72	12,076.08	19,901.83	29,605.64	38,251.85
Percentage of net debt to total assets	11.5	65.4	20.4	73.8	47.1

"A"

Hydro Municipalities as at December 31, 1924

Aylmer 2,222	Ayr 811	Baden P.V.	Barton Twp.	Beachville P.V.	Belle River 560	Blenheim 1,553	Blyth 646
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	125.00	660.64	.....	176.13	.....	.....	.....
.....	.....	.....	.....	.....	.....	909.64	.....
16,513.12	7,417.60	5,751.81	58,230.24	10,017.68	9,319.68	15,701.42	9,407.92
.....	.....	.....	.....	.....	.....	.....	.....
4,942.85	1,855.72	3,089.81	8,275.43	1,372.84	1,948.60	6,176.23	1,516.89
7,045.29	2,393.55	2,006.43	15,314.89	2,259.41	1,704.13	6,639.97	485.26
1,240.46	370.47	394.50	2,381.96	369.17	631.92	1,286.68	1,275.39
.....	.....	.....	.....	.....	.....	1,482.97	.....
1,051.86	809.79	.....	4,060.34	533 36	725.49	702.17	232.06
.....	.....	.....	.....	.....	.....	.....	.....
14,719.17	4,002.53	.....	.....	.....	.....	.....	2,332.68
45,512.75	16,974.66	11,903.19	88,262.86	14,728.59	14,329.82	32,899.08	15,250.20
3,395.37	2,137.58	1,490.41	.....	2,566.07	1,232.39	.....	4,477.99
12,000.00	1,000.00	.....	.....	8,000.00	.....	.....	.....
3,500.71	2,443.83	805.96	432.47	2,164.01	2,976.55	3,932.68	1,689.24
.....	107.95	31.25	62.19	56.64	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
3,468.91	2,421.93	7,046.89	1,124.80	8,769.51	333 78	5,620.13	56.65
.....	.....	.....	450.00	.....	462.47	.....	.....
67,877.74	25,085.95	21,277.70	90,332.32	36,284.82	19,335.01	42,451.89	21,474.08
.....	.....	.....	249.00	.....	.....	.....	.....
67,877.74	25,085.95	21,277.70	90,581.32	36,284.82	19,335.01	42,451.89	21,474.08
29,598.61	5,988.68	3,666.96	44,135.07	3,952.73	8,268.93	11,965.07	20,332.68
95.00	.....	.....	30,235.84	.....	382.00	.....	112.56
.....	.....	.....	1,895.73	.....	.....	485.94	.....
.....	.....	.....	5.00	.....	.....	1,482.97	.....
29,693.61	5,988.68	3,666.96	76,271.64	3,952.73	8,650.93	13,933.98	20,445.24
3,468.91	2,421.93	7,046.89	1,124.80	8,769.51	333.78	5,620.13	56.65
5,008.38	3,824.47	325.00	3,897.29	4,825.39	545.00	6,013.70	.....
8,477.29	6,246.40	7,371.89	5,022.09	13,594.90	878.78	11,633.83	56.65
9,103.31	6,514.70	1,333.04	9,287.59	1,400.27	231.07	2,034.93	.....
.....	.....	.....	.....	.....	.....	.....	.....
20,603.53	6,336.17	8,905.81	.....	17,336.92	9,574.23	14,849.15	972.19
29,706.84	12,850.87	10,238.85	9,287.59	18,737.19	9,805.30	16,884.08	972.19
67,877.74	25,085.95	21,277.70	90,581.32	36,284.82	19,335.01	42,451.89	21,474.08
46.1	26.4	25.7	85.5	14.4	45.5	37.8	95.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Bolton	Bothwell	Brampton	Brantford	Brantford Twp.
Population	664	647	4,778	30,109	
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	.....	3,854.06	37,211.73	.....
Substation equipment	.....	.....	19,499.60	114,709.03	1,192.71
Distribution system, overhead	8,652.55	4,209.20	42,963.06	189,922.33	37,962.24
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	3,407.44	1,415.34	15,581.17	86,728.40	11,235.37
Meters	2,288.34	2,436.42	17,644.65	87,730.61	8,151.24
Street lighting equipment, regular	561.14	459.44	2,302.74	22,701.06	2,434.72
Street lighting equip., ornamental	.....	.....	.....	33,725.84	.....
Misc. construction expense	982.60	501.90	3,127.51	28,554.07	3,908.95
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	1,554.60	.....	15,000 00	.....	.....
Total plant	17,446.67	9,022.30	119,972.79	601,283.07	64,885.23
Bank and cash balance	241.70	1,412.89	223.41	12,249.29	3,712.56
Securities and investments	.....	7,000.00	17,269.65	26,069.18	5,000.00
Accounts receivable	122.53	1,915.09	1,971.17	14,920.21	423.47
Inventories	.....	.....	434.29	1,242.97	218.96
Sinking fund on local debentures	.....	.....	.....	90,978.12	973.10
Equity in Hydro systems	4,635.05	4,979.54	28,863.92	99,285.07	811.39
Other assets	.....	1,057.01	.....	.....	.....
Total assets	22,445.95	25,386.83	168,735.23	846,027.91	76,024.71
Deficit	612.14	.....	.....	.....	.....
Total	23,058.09	25,386.83	168,735.23	846,027.91	76,024.71
LIABILITIES					
Debenture balance	9,990.35	4,273.23	42,330.02	429,750.00	47,153.75
Accounts payable	772.74	.....	.....	704.46	.....
Bank overdraft	.....	.....	.....	.....	.....
Other liabilities	.....	1,057.01	.....	42,725.60	1,107.78
Total liabilities	10,763.09	5,330.24	42,330.02	473,180.06	48,261.53
RESERVES					
For equity in H.E.P.C. systems	4,635.05	4,979.54	28,863.92	99,285.07	811.39
For depreciation	5,150.30	3,315.56	33,107.30	97,636.53	8,670.96
Total reserves	9,785.35	8,295.10	61,971.22	196,921.60	9,482.35
SURPLUS					
Debentures paid	2,509.65	1,260.96	26,720.62	25,250.00	9,971.91
Local sinking fund	.....	.....	.....	90,978.12	973.10
Additional operating surplus	.....	10,500.53	37,713.37	59,698.13	7,335.82
Total surplus	2,509.65	11,761.49	64,433.99	175,926.25	18,280.83
Total liabilities, reserves & surplus	23,058.09	25,386.83	168,735.23	846,027.91	76,024.71
Percentage of net debt to total assets	60.4	25.8	30.3	58.3	63.7

"A"—Continued

Hydro Municipalities as at December 31, 1924

Brigden P.V.	Brussels 890	Burford P.V.	Burgessville, P.V.	Caledonia 1,326	Chatham 15,084	Chippawa 1,078	Clifford 467
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
101.03	.....	202.00	.....	.....	39,649.32	.....	.....
.....	.....	.....	.....	.....	59,836.04	.....	.....
5,664.19	11,905.40	6,541.50	2,191.96	11,447.85	116.366,30	14,028.38	5,574.68
.....	.....	.....	.....	.....	.....	.....	.....
1,253.30	1,751.30	1,598.69	687.19	3,696.37	63,187.47	2,957.47	787.64
1,716.37	2,776.70	2,671.93	628.09	3,207.28	57,341.08	2,539.70	1,133.50
223.35	1,520.11	376.89	156.07	807.74	8,653.46	532.60	532.21
.....	.....	.....	.....	.....	26,907.19	.....	.....
858.11	1,527.56	704.50	453.00	587.31	27,709.25	849.15	37.44
.....	.....	.....	.....	.....	.....	.....	.....
1,381.00	2,827.50	.....	.....	.....	43,927.53	.....	.....
11,197.35	22,308.57	12,095.51	4,116.31	19,746.55	443,577.64	20,907.30	8,065.47
238.08	1,011.65	1,727.99	1,635.59	447.71	50.00	509.07	563.94
.....	.....	.....	.....	.....	.....	.....	.....
119.00	442.74	2,169.65	241.23	754.30	43,740.47	426.28	219.23
.....	.....	180.05	.....	.....	11,881.33	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
1,849.22	85.97	2,016.16	723.86	2,564.72	54,183.48	1,348.25	57.05
.....	.....	.....	.....	.....	.....	.....	.....
13,403.65	23,848.93	18,189.36	6,716.99	23,513.28	553,432.92	23,190.90	8,905.69
.....	.....	.....	.....	.....	.....	.....	.....
13,403.65	23,848.93	18,189.36	6,716.99	23,513.28	553,432.92	23,190.90	8,905.69
2,884.61	20,397.72	6,787.66	2,405.73	3,513.14	234,596.00	11,720.68	8,000.00
484.77	1,537.97	.....	.....	500.02	38,933.65	353.08	99.64
.....	.....	.....	.....	.....	2,806.20	.....	.....
.....	.....	.....	.....	6,616.38	27,098.41	.....	.....
3,369.38	21,935.69	6,787.66	2,405.73	10,629.54	303,434.26	12,073.76	8,099.64
1,849.22	85.97	2,016.16	723.86	2,564.72	54,183.48	1,348.25	57.05
1,584.17	.....	2,286.00	1,111.30	709.76	58,316.16	1,956.66	.....
3,433.39	85.97	4,302.16	1,835.16	3,274.48	112,499.64	3,304.91	57.05
5,115.39	602.28	2,212.34	1,094.27	1,110.86	35,404.00	1,629.32	.....
.....	.....	.....	.....	.....	.....	.....	.....
1,485.49	1,224.99	4,887.20	1,381.83	8,498.40	102,095.02	6,182.91	749.00
6,600.88	1,827.27	7,099.54	2,476.10	9,609.26	137,499.02	7,812.23	749.00
13,403.65	23,848.93	18,189.36	6,716.99	23,513.28	553,432.92	23,190.90	8,905.69
29.2	92.3	39.5	40.1	50.7	60.7	55.3	91.5

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Clinton	Comber P.V.	Courtright	Dashwood P.V.	Delaware P.V.
Population	1,922		441		
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	2,550.00				
Substation equipment	7,544.43				
Distribution system, overhead	17,715.37	4,885.21	5,114.58	1,863.82	2,432.66
Distribution system, underground					
Line transformers	5,354.08	2,670.63	550.63	953.68	216.75
Meters	6,133.46	1,729.10	692.82	945.55	659.15
Street light equipment, regular	939.92	199.55	411.88	301.52	106.93
Street light equip., ornamental					
Misc. construction expense	3,674.50	957.54	558.67	291.87	203.81
Steam or hydraulic plant					
Old plant	10,658.09				
Total plant	54,569.85	10,442.03	7,328.58	4,356.44	3,619.30
Bank and cash balance		1,133.49	398.28	356.61	371.92
Securities and investments					
Accounts receivable	4,008.54	1,425.25	1,545.16	11.24	2,540.42
Inventories	3,433.92				
Sinking fund on local debentures	10,337.21				
Equity in Hydro systems	7,007.10	3,106.42	74.49	1,259.41	507.97
Other assets					
Total assets	79,356.62	16,107.19	9,346.51	5,983.70	7,039.61
Deficit					
Total	79,356.62	16,107.19	9,346.51	5,983.70	7,039.61
LIABILITIES					
Debenture balance	40,500.00	5,189.93	7,787.08	2,943.80	3,242.60
Accounts payable				108.59	
Bank overdraft	2,553.31				
Other liabilities					
Total liabilities	43,053.31	5,189.93	7,787.08	3,052.39	3,242.60
RESERVES					
For equity in H.E.P.C. systems	7,007.10	3,106.42	74.49	1,259.41	507.97
For depreciation	11,054.81	2,122.42	135.00	868.34	912.91
Total reserves	18,061.91	5,228.84	209.49	2,127.75	1,420.88
SURPLUS					
Debentures paid		2,510.07	351.27	456.20	757.40
Local sinking fund	10,337.21				
Additional operating surplus	7,904.19	3,178.35	998.67	347.36	1,618.73
Total surplus	18,241.40	5,688.42	1,349.94	803.56	2,376.13
Total liabilities, reserves & surplus	79,356.62	16,107.19	9,346.51	5,983.70	7,039.61
Percentage of net debt to total assets	52.7	39.9	84.0	64.6	49.6

"A"—Continued

Hydro Municipalities as at December 31, 1924

Dereham Township	Dorchester P.V.	Drayton 613	Dresden 1,426	Drumbo P.V.	Dublin P.V.	Dundas 5,070	Dunnville 3,605
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	.....	.....	.....	.....	.....	8,519.52	3,379.78
.....	.....	.....	523.00	.....	.....	13,396.22	16,916.68
10,315.04	5,054.01	7,066.71	11,066.09	3,226.07	4,168.85	48,889.32	27,848.81
.....	.....	.....	.....	.....	.....	.....	.....
12,547.80	2,534.50	1,893.24	5,122.27	1,216.27	660.75	15,797.94	10,369.00
3,381.03	1,823.91	2,169.42	4,704.10	1,314.56	636.61	17,216.83	8,307.05
.....	245.41	569.63	880.52	216.58	426.53	1,763.60	2,320.25
.....	.....	.....	.....	.....	.....	.....	4,767.47
494.46	328.41	388.37	408.09	239.58	787.06	7,258.24	5,454.91
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	4,815.01	.....	.....	1,867.38	10,717.62
26,738.33	9,986.24	12,087.37	27,519.08	6,213.06	6,679.80	114,709.05	90,081.57
2,827.25	2,855.11	87.14	2,166.51	1,099.42	250.18	7,686.55	2,636.65
.....	2,000.00	5,000.00	5,000.00	.....	.....	.....	5,000.00
624.07	43.00	376.83	876.98	294.17	27.21	1,352.01	4,533.38
.....	28.31	.....	691.83	37.83	7.99	1,875.74	1,493.84
.....	.....	.....	.....	.....	.....	.....	.....
4,969.43	902.73	1,122.60	4,718.15	889.80	615.84	28,131.12	4,706.86
.....	.....	.....	.....	.....	.....	.....	100.00
35,159.08	15,815.39	18,673.94	40,972.55	8,534.28	7,581.02	153,754.47	108,552.30
5,986.38	.....	.....	.....	.....	1,223.80	.....	.....
41,145.46	15,815.39	18,673.94	40,972.55	8,534.28	8,804.82	153,754.47	108,552.30
18,478.61	3,586.41	8,492.54	9,356.70	3,648.06	4,580.43	41,229.89	67,973.54
7,558.74	1,093.73	.....	.....	.....	646.98	2,743.11	1,421.83
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
26,037.35	4,680.14	8,492.54	9,356.70	3,648.06	5,227.41	43,973.00	69,395.37
4,969.43	902.73	1,122.60	4,718.15	889.80	615.84	28,131.12	4,706.86
7,913.91	2,078.68	2,060.40	5,007.54	1,467.00	1,342.00	27,729.05	12,225.81
12,883.34	2,981.41	3,183.00	9,725.69	2,356.80	1,957.84	55,860.17	16,932.67
2,224.77	713.59	1,007.46	6,881.55	851.94	1,619.57	11,770.11	7,526.46
.....	.....	.....	.....	.....	.....	.....	.....
.....	7,440.25	5,990.94	15,008.61	1,677.48	.....	42,151.19	14,697.80
2,224.77	8,153.84	6,998.40	21,890.16	2,529.42	1,619.57	53,921.30	22,224.26
41,145.46	15,815.39	18,673.94	40,972.55	8,534.28	8,804.82	153,754.47	108,552.30
86.2	31.3	48.3	25.8	47.7	75.0	35.0	66.8

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Dutton	Elmira	Elora	Embro	*Erieau
Population	823	2,392	1,079	475	153
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	4,670.17	1,458.42	.....	.....
Substation equipment	.....	.....	.....	.....	.....
Distribution system, overhead	7,400.24	20,452.22	12,485.10	6,100.61	5,431.12
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	2,531.80	9,331.73	5,548.56	1,738.56	474.00
Meters	3,016.97	8,757.72	4,045.08	1,366.39	500.50
Street light equipment, regular	516.26	1,081.56	501.34	223.37	228.30
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	338.94	2,783.22	926.18	69.45	477.08
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	.....	2,325.08	1,425.47	429.25	.....
Total plant	13,804.21	49,401.70	26,390.15	9,927.63	7,111.00
Bank and cash balance	1,621.57	1,005.17	3,184.59	297.79	453.51
Securities and investments	1,500.00	.....	.....	1,000.00	.....
Accounts receivable	3,063.32	3,525.96	958.48	163.42	323.80
Inventories	126.10	1,827.37	1,046.64	.....	.....
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in Hydro systems	3,144.07	10,735.00	7,196.29	2,459.91	16.64
Other assets	.....	.....	.....	.....	.....
Total assets	23,259.27	66,495.20	38,776.15	13,848.75	7,904.95
Deficit	.....	.....	.....	.....	.....
Total	23,259.27	66,495.20	38,776.15	13,848.75	7,904.95
LIABILITIES					
Debenture balance	7,213.90	16,212.49	9,186.90	6,350.68	.....
Accounts payable	.....	.....	.....	.....	7,427.36
Bank overdraft	.....	.....	.....	.....	.....
Other liabilities	.....	175.00	.....	.....	.....
Total liabilities	7,213.90	16,387.49	9,186.90	6,350.68	7,427.36
RESERVES					
For equity in H.E.P.C. systems	3,144.07	10,735.00	7,196.29	2,459.91	16.64
For depreciation	3,545.60	9,130.29	6,958.70	3,069.79	.....
Total reserves	6,689.67	19,865.29	14,154.99	5,529.70	16.64
SURPLUS					
Debentures paid	1,193.59	3,787.51	3,813.10	1,149.31	.....
Local sinking fund	.....	.....	.....	.....	.....
Additional operating surplus	8,162.11	26,454.91	11,621.16	819.06	460.95
Total surplus	9,355.70	30,242.42	15,434.26	1,968.37	460.95
Total liabilities, reserves & surplus	23,259.27	66,495.20	38,776.15	13,848.75	7,904.95
Percentage of net debt to total assets	35.8	29.3	29.0	55.7	94.1

*Four months' operation only.

"A"—Continued

Hydro Municipalities as at December 31, 1924

Essex 1,591	Etobicoke Township	Exeter 1,531	Fergus 1,762	Ford City 5,724	Forest 1,437	Galt 13,222	George-town 1,973
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	21,173.03	2,683.93	.....	.....	5,267.28	192,540.73	12.00
.....	.....	.....	.....	.....	.....	150,478.97	.....
20,691.25	110,036.40	15,316.73	18,216.17	72,281.48	15,099.82	199,033.11	22,006.50
.....	.....	.....	.....	.....	.....	.....	.....
6,702.50	29,760.25	4,447.73	7,796.20	26,348.55	4,555.92	46,106.74	12,830.81
6,085.62	37,408.59	5,301.54	7,308.18	27,911.47	6,898.07	56,800.70	8,562.17
423.72	7,381.46	900.06	1,358.33	.....	2,000.02	10,943.46	1,232.34
.....	.....	.....	.....	.....	.....	60,041.09	.....
421.53	3,940.68	1,740.63	896.42	2,646.61	553.65	26,097.50	1,901.26
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	2,546.59	.....	11,084.87	.....	2,209.80
34,324.62	209,700.41	30,390.62	38,121.89	129,188.11	45,459.63	742,042.30	48,754.88
3,019.39	50.00	4,260.72	1,271.68	.....	1,064.99	.....	1,585.71
.....	.....	.....	1,500.00	.....	4,500.00	.....	17,182.27
3,923.21	6,513.98	4,436.27	2,040.70	18,016.73	1,862.34	49,281.31	4,182.56
.....	1,662.13	2,262.84	328.96	.....	4,081.16	17,016.40	1,221.53
.....	.....	.....	.....	.....	.....	96,906.63	.....
4,565.20	18,237.77	7,385.48	6,289.10	13,905.66	3,393.93	93,417.86	18,197.34
344.72	177.52	.....	.....	.....	.....	907.86	.....
46,177.14	236,341.81	48,735.93	49,552.33	161,110.50	60,362.05	999,572.36	91,124.29
.....	.....	.....	.....	.....	.....	.....	.....
46,177.14	236,341.81	48,735.93	49,552.33	161,110.50	60,362.05	999,572.36	91,124.29
22,500.00	103,425.81	15,379.35	26,093.83	109,726.32	21,052.28	496,860.42	16,212.48
3,057.92	3,138.64	.....	.....	5,567.95	468.06	85,677.99	983.37
.....	19,121.23	.....	.....	.....	.....	27,326.05	.....
342.33	3,103.96	.....	.....	.....	.....	.....	.....
25,900.25	128,789.64	15,379.35	26,093.83	115,294.27	21,520.34	609,864.46	17,195.85
4,565.20	18,237.77	7,385.48	6,289.10	13,905.66	3,393.93	93,417.86	18,197.34
3,480.96	32,293.86	5,757.40	6,516.73	6,843.13	6,027.47	91,330.68	15,965.98
8,046.16	50,531.63	13,142.88	12,805.83	20,748.79	9,421.40	184,748.54	34,163.32
.....	12,574.19	4,620.70	3,906.17	4,273.68	13,347.72	21,141.53	3,787.52
.....	.....	.....	.....	.....	.....	96,906.63	.....
12,230.73	44,446.35	15,593.00	6,746.50	20,793.76	16,072.59	86,911.20	35,977.60
12,230.73	57,020.54	20,213.70	10,652.67	25,067.44	29,420.31	204,959.36	39,765.12
46,177.14	236,341.81	48,735.93	49,552.33	161,110.50	60,362.05	999,572.36	91,124.29
62.2	59.0	37.1	60.3	78.3	37.7	63.3	23.5

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Glencoe	Goderich	Grantham Township	Granton P.V.	Guelph
Population	840	4,220			18,420
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	12,957.48	.....	.....	12,004.40
Substation equipment	.....	9,795.28	.....	.....	92,424.17
Distribution system, overhead	15,783.40	46,230.10	10,579.61	3,491.76	119,563.77
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	3,395.54	14,612.09	6,285.77	793.55	59,630.68
Meters	3,432.49	12,916.93	2,521.63	986.19	59,288.59
Street light equipment, regular	1,647.22	4,288.27	.....	149.27	31,690.23
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	3,204.85	4,276.13	267.30	113.08	15,054.19
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	.....	14,622.15	.....	.....	.....
Total plant	27,463.50	119,698.43	19,654.31	5,533.85	389,656.03
Bank and cash balance	2,229.96	4,392.51	.....	2,700.76	4,386.69
Securities and investments	.....	.....	.....	.....	25,000.00
Accounts receivable	2,005.36	16,264.40	2,227.87	31.00	33,294.24
Inventories	.....	1,320.04	.....	.....	30,399.15
Sinking fund on local debentures	.....	5,438.57	2,976.97	.....	24,799.75
Equity in Hydro systems	965.18	20,715.15	6,321.41	1,356.96	105,512.54
Other assets	.....	.....	.....	.....	.....
Total assets	32,664.00	167,829.10	31,180.56	9,622.57	613,048.40
Deficit	.....	.....	.....	.....	.....
Total	32,664.00	167,829.10	31,180.56	9,622.57	613,048.40
LIABILITIES					
Debenture balance	15,758.39	55,962.53	10,439.76	2,991.26	87,083.82
Accounts payable	.....	4,114.01	5,261.28	133.36	33,919.10
Bank overdraft	.....	.....	.....	.....	.....
Other liabilities	.....	.....	.....	.....	.....
Total liabilities	15,758.39	60,076.54	15,701.04	3,124.62	121,002.92
RESERVES					
For equity in H.E.P.C. systems	965.18	20,715.15	6,321.41	1,356.96	105,512.54
For depreciation	1,871.08	34,106.57	4,317.16	1,222.05	72,825.96
Total reserves	2,836.26	54,821.72	10,638.57	2,579.01	178,338.50
SURPLUS					
Debentures paid	4,354.49	20,125.52	560.24	508.74	57,916.17
Local sinking fund	.....	5,438.57	2,976.97	.....	24,799.75
Additional operating surplus	9,714.86	27,366.75	1,303.74	3,410.20	230,991.06
Total surplus	14,069.35	52,930.84	4,840.95	3,918.94	313,706.98
Total liabilities, reserves & surplus	32,664.00	167,829.10	31,180.56	9,622.57	613,048.40
Percentage of net debt to total assets	49.7	38.5	58.1	37.7	25.6

"A"—Continued

Hydro Municipalities as at December 31, 1924

Hagers-ville 1,155	Hamilton 120,234	Harriston 1,318	Harrow P.V.	Hensall 705	Hespeler 2,907	Highgate 414	*Humber-stone 1,428
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	600,820.82	.....	.....	.....	3,560.00	.....	.....
864.37	265,038.77	600.00	.....	.....	12,966.98	.....	.....
14,445.87	597,197.14	14,335.19	7,577.90	7,953.22	23,611.94	4,001.69	16,643.31
.....	306,606.46	.....	.....	.....	.....	.....	.....
4,775.17	318,610.28	4,752.39	4,314.45	2,521.47	11,032.94	1,488.37	4,180.17
5,554.30	338,781.74	4,238.79	3,245.66	2,756.30	9,800.15	1,342.77	4,172.15
659.82	108,884.80	641.15	85.26	436.67	1,650.22	294.56	600.12
.....	.....	.....	.....	.....	.....	.....	.....
272.95	166,043.58	644.74	.....	447.50	53.67	514.48	2,681.50
.....	.....	.....	.....	.....	.....	.....	.....
.....	2,000.00	1,118.33	.....	400.00	2,129.87	.....	.....
26,572.48	2703,983.59	26,330.59	15,223.27	14,515.16	64,805.77	7,641.87	28,277.25
804.78	185,914.61	.....	3,955.74	4,228.44	5,486.25	3,023.06	1,229.80
2,000.00	.....	.....	.....	.....	.....	.....	.....
2,424.92	336,792.85	1,435.96	2,720.11	885.57	3,900.23	542.05	93.80
30.00	93,916.07	350.00	.....	.....	.....	75.82	.....
.....	294,398.12	.....	.....	.....	.....	.....	.....
11,566.28	410,983.63	5,141.82	1,709.23	2,773.47	13,461.11	1,781.01	45.03
.....	3,217.62	.....	.....	.....	.....	.....	.....
43,398.46	4029,206.49	33,258.37	23,608.35	22,402.64	87,653.36	13,063.81	29,645.88
.....	.....	.....	.....	.....	.....	.....	.....
43,398.46	4029,206.49	33,258.37	23,608.35	22,402.64	87,653.36	13,063.81	29,645.88
5,956.22	2331,677.63	12,963.57	12,000.00	10,350.83	30,285.24	4,281.36	28,000.00
1,941.20	203,091.50	12.81	1,366.46	1,255.69	183.34	.....	1,361.34
.....	.....	2,321.69	.....	.....	.....	.....	.....
.....	93,066.57	.....	110.00	.....	.....	.....	.....
7,897.42	2627,835.70	15,298.07	13,476.46	11,606.52	30,468.58	4,281.36	29,361.34
11,566.28	410,983.63	5,141.82	1,709.23	2,773.47	13,461.11	1,781.01	45.03
1,238.39	442,751.09	2,869.77	2,455.43	3,233.16	5,261.91	1,536.40	.....
12,804.67	853,734.72	8,011.59	4,164.66	6,006.63	18,723.02	3,317.41	45.03
2,043.78	88,322.37	5,354.46	.....	1,649.17	22,285.27	718.64	.....
.....	294,398.12	.....	.....	.....	.....	.....	.....
20,652.59	164,915.58	4,594.25	5,967.23	3,140.32	16,176.49	4,746.40	239.51
22,696.37	547,636.07	9,948.71	5,967.23	4,789.49	38,461.76	5,465.04	239.51
43,398.46	4029,206.49	33,258.37	23,608.35	22,402.64	87,653.36	13,063.81	29,645.88
24.8	70.2	54.4	61.5	59.1	41.0	37.9	99.1

*2 months' operation only.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Ingersoll	Jarvis	Kingsville	Kitchener	Lambeth
Population	5,002	475	1,990	23,571	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	11,922.65	.....	1,958.72	49,076.76	.....
Substation equipment	17,002.71	.....	.....	145,147.73	.....
Distribution system, overhead	43,262.19	7,866.10	20,860.67	187,611.18	4,977.53
Distribution system, underground	.....	.....	.....	31,269.99	.....
Line transformers	18,600.71	2,586.66	8,996.19	112,729.52	817.71
Meters	20,738.39	1,362.20	9,251.60	115,247.22	1,515.55
Street light equipment, regular	2,762.09	549.59	634.82	37,642.33	167.40
Street light equip., ornamental	4,597.59	.....	.....	.....	.....
Misc. construction expense	9,828.40	536.27	.....	13,385.94	300.71
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	20,149.68	.....	.....	52,398.91	.....
Total plant	148,864.41	12,900.82	41,702.00	744,509.58	7,778.90
Bank and cash balance	1,094.65	.....	12,348.54	1,954.98	1,315.70
Securities and investments	17,696.46	.....	.....	22,000.00	.....
Accounts receivable	17,478.63	603.18	5,656.05	89,131.34	953.96
Inventories	2,067.06	.....	.....	19,781.67	.....
Sinking fund on local debentures	31,757.10	.....	.....	.....	.....
Equity in Hydro systems	32,253.81	241.28	5,335.53	183,684.19	1,168.63
Other assets	.....	.....	943.87	578.82	.....
Total assets	251,212.12	13,745.28	65,985.99	1061,640.58	11,217.19
Deficit	.....	.....	.....	.....	.....
Total	251,212.12	13,745.28	65,985.99	1061,640.58	11,217.19
LIABILITIES					
Debenture balance	79,800.00	10,198.87	33,500.00	373,186.73	3,418.60
Accounts payable	15,052.80	.....	4,835.96	30,016.82	.....
Bank overdraft	.....	183.44	.....	.....	.....
Other liabilities	4,597.59	1,840.00	934.08	17,094.23	.....
Total liabilities	99,450.39	12,222.31	39,270.04	420,297.78	3,418.60
RESERVES					
For equity in H.E.P.C. systems	32,253.81	241.28	5,335.53	183,684.19	1,168.63
For depreciation	20,813.92	.....	5,523.62	140,698.61	1,585.24
Total reserves	53,067.73	241.28	10,859.15	324,382.80	2,753.87
SURPLUS					
Debentures paid	.....	301.13	.....	138,963.27	581.40
Local sinking fund	31,757.10	.....	.....	.....	.....
Additional operating surplus	66,936.90	980.56	15,856.80	177,996.73	4,463.32
Total surplus	98,694.00	1,281.69	15,856.80	316,960.00	5,044.72
Total liabilities, reserves & surplus	251,212.12	13,745.28	65,985.99	1061,640.58	11,217.19
Percentage of net debt to total assets	37.2	90.5	64.7	47.8	34.0

"A"—Continued

Hydro Municipalities as at December 31, 1924

Leamington 3,969	Listowel 2,431	London 61,369	London Township	Louth Township	Lucan 602	Lynden P.V.	Markham 967
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,972.41	1,283.96	344,518.58	.....	.....	.....	241.18	.....
.....	.....	533,493.02	.....	.....	.....	.....	.....
24,763.22	29,557.53	611,792.82	6,054.81	1,990.02	8,298.22	2,960.94	9,598.14
.....	.....	123,198.67	.....	.....	.....	.....	.....
12,373.53	12,916.60	135,328.31	1,688.16	2,548.23	3,326.58	1,207.38	3,752.37
15,205.44	11,518.95	242,424.46	1,660.83	674.46	2,640.60	1,154.36	3,507.69
338.00	1,238.10	50,645.80	.....	.....	372.54	173.44	467.33
.....	5,772.22	2,382.69	.....	.....	.....	.....	.....
.....	1,571.16	81,994.51	429.31	*Cr* 126.84	445.77	193.57	1,113.39
.....	.....	.....	.....	.....	.....	.....	.....
.....	4,745.30	.....	1,733.80	.....	2,860.45	.....	11.03
59,652.60	68,603.82	2125,778.86	11,566.91	5,085.87	17,944.16	5,930.87	18,449.95
21,538.21	1,598.81	33,573.36	4,363.65	339.93	1,277.92	1,328.97	73.86
.....	.....	.....	2,000.00	.....	7,000.00	.....	2,221.40
12,700.32	4,367.46	241,146.97	1,539.21	312.68	113.71	1,029.04	1,707.73
.....	.....	55,185.95	.....	.....	43.97	.....	.....
.....	.....	217,278.83	.....	.....	.....	.....	.....
6,272.51	9,018.60	364,011.87	.....	404.35	4,170.20	3,460.16	1,060.01
.....	.....	210,000.00	.....	.....	.....	.....	.....
100,163.64	83,588.69	3246,975.84	19,469.77	6,142.83	30,549.96	11,749.04	23,512.95
.....	.....	.....	.....	257.94	.....	.....	.....
100,163.64	83,588.69	3246,975.84	19,469.77	6,400.77	30,549.96	11,749.04	23,512.95
48,000.00	27,194.58	1398,640.23	12,014.70	1,676.50	7,960.30	3,796.83	8,532.31
6,181.37	1,751.37	303,600.79	1,176.99	3,500.93	330.56	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
1,117.38	5,742.30	24,255.19	.....	.....	.....	.....	.....
55,298.75	34,688.25	1726,496.21	13,191.69	5,177.43	8,290.86	3,796.83	8,532.31
6,272.51	9,018.60	364,011.87	.....	404.35	4,170.20	3,460.16	1,060.01
9,059.22	10,591.01	429,636.84	2,227.21	545.49	3,710.53	1,566.05	1,835.20
15,331.73	19,609.61	793,648.71	2,227.21	949.84	7,880.73	5,026.21	2,895.21
.....	15,995.31	108,259.77	1,485.30	273.50	3,253.32	698.17	3,026.52
.....	.....	217,278.83	.....	.....	.....	.....	.....
29,533.16	13,295.52	401,292.32	2,565.57	.....	11,125.05	2,227.83	9,058.91
29,533.16	29,290.83	726,830.92	4,050.87	273.50	14,378.37	2,926.00	12,085.43
100,163.64	83,588.69	3246,975.84	19,469.77	6,400.77	30,549.96	11,749.04	23,512.95
58.8	46.5	56.9	67.7	90.2	31.4	45.8	37.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Merlin P.V.	Merritton	Milton	Milverton	Mimico
Population		2,591	1,900	1,056	4,137
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	350.00	.....	237.20	12,243.22
Substation equipment	.....	9,737.96	11,951.93	.....	24,848.78
Distribution system, overhead	7,443.31	14,175.07	15,925.57	8,475.11	45,191.34
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	2,445.28	3,507.42	7,498.61	6,044.63	16,797.76
Meters	1,546.18	7,222.03	8,497.42	3,343.91	17,949.77
Street light equipment, regular	517.08	1,407.25	986.67	570.49	2,982.83
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	455.36	2,143.09	3,058.25	557.93	2,594.43
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	241.85	.....	4,065.85	.....	.....
Total plant	12,649.06	38,542.82	51,984.30	19,229.27	122,608.13
Bank and cash balance	4,913.17	1,130.94	2,590.31	29.86	3,891.93
Securities and investments	.....	.....	.....	.....	.....
Accounts receivable	2,153.46	.....	2,588.86	5,320.63	3,959.33
Inventories	.....	206.65	2,649.17	.....	90.10
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in Hydro systems	614.36	5,453.85	20,653.46	7,347.27	13,952.86
Other assets	.....	.....	.....	.....	.....
Total assets	20,330.05	45,334.26	80,466.10	31,927.03	144,502.35
Deficit	.....	.....	.....	.....	.....
Total	20,330.05	45,334.26	80,466.10	31,927.03	144,502.35
LIABILITIES					
Debenture balance	12,591.44	2,845.34	10,350.62	6,432.63	82,811.87
Accounts payable	1,257.76	4,717.08	13,465.31	1,522.45	6,562.05
Bank overdraft	.....	.....	.....	374.21	.....
Other liabilities	.....	.....	.....	432.92	795.00
Total liabilities	13,849.20	7,562.42	23,815.93	8,762.21	90,168.92
RESERVES					
For equity in H.E.P.C. systems	614.36	5,453.85	20,653.46	7,347.27	13,952.86
For depreciation	239.00	2,812.00	8,856.78	3,040.24	18,324.60
Total reserves	853.36	8,265.85	29,510.24	10,387.51	32,277.46
SURPLUS					
Debentures paid	772.77	2,340.87	14,362.36	3,067.37	9,188.13
Local sinking fund	.....	.....	.....	.....	.....
Additional operating surplus	4,854.72	27,165.12	12,777.57	9,709.94	12,867.84
Total surplus	5,627.49	29,505.99	27,139.93	12,777.31	22,055.97
Total liabilities, reserves & surplus	20,330.05	45,334.26	80,466.10	31,927.03	144,502.35
Percentage of net debt to total assets	70.2	18.9	39.8	35.6	69.0

"A"—Continued

Hydro Municipalities as at December 31, 1924

Mitchell 1,739	Moore-field P.V.	Mount Brydges P.V.	Newbury 307	New Hamburg 1,390	New Toronto 3,182	Niagara Falls 15,404	Niagara on-the-lake 1,714
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
11,071.14	.....	.....	.....	2,329.29	395.00	104,990.78	216.42
11,493.01	.....	.....	.....	1,083.10	.....	96,995.94	4,633.32
17,838.89	2,632.63	3,715.57	5,841.70	14,213.99	44,901.51	134,780.06	17,106.78
.....	.....	.....	.....	.....	.....	.....	.....
6,909.91	857.72	984.37	1,036.62	5,546.73	12,890.99	95,385.15	3,144.31
8,590.59	728.32	1,425.67	757.65	5,732.42	15,222.23	78,851.56	4,416.93
2,169.51	295.88	164.44	765.45	1,467.45	3,447.80	18,666.53	698.30
.....	.....	.....	.....	.....	.....	46,187.41	.....
1,035.13	348.35	143.82	485.13	1,017.60	2,805.53	7,898.09	1,131.07
.....	.....	.....	.....	.....	.....	.....	.....
1,500.00	.....	.....	348.22	5,242.56	.....	13,272.14	.....
60,608.18	4,862.90	6,433.87	9,234.77	36,633.14	79,663.06	597,027.66	31,347.13
5,213.67	1,048.81	3,649.02	1,378.80	6,241.44	17,467.86	100.00	706.59
2,000.00	.....	.....	.....	.....	.....	.....	.....
2,331.18	224.01	751.61	771.05	3,430.40	10,510.53	54,366.30	395.57
517.24	.....	34.41	15.50	930.67	483.89	2,511.10	36.11
.....	.....	.....	.....	.....	.....	.....	.....
8,857.69	614.78	1,337.21	286.43	9,819.23	56,060.42	63,734.29	2,639.49
.....	.....	.....	.....	.....	952.05	9,244.60	.....
79,527.96	6,750.50	12,206.12	11,686.55	57,054.88	165,137.81	726,983.95	35,124.89
.....	.....	.....	.....	.....	.....	.....	.....
79,527.96	6,750.50	12,206.12	11,686.55	57,054.88	165,137.81	726,983.95	35,124.89
4,460.39	3,453.29	3,469.76	8,100.00	12,690.27	6,289.40	340,464.45	11,243.09
925.64	.....	.....	.....	559.20	7,206.91	26,274.27	350.76
.....	.....	.....	.....	.....	.....	24,687.73	.....
.....	.....	.....	.....	.....	885.10	7,878.26	.....
5,386.03	3,453.29	3,469.76	8,100.00	13,249.47	14,381.41	399,304.71	11,593.85
8,857.69	614.78	1,337.21	286.43	9,819.23	56,060.42	63,734.29	2,639.49
17,096.31	725.90	1,639.00	512.04	10,724.15	14,036.52	50,843.29	2,042.47
25,954.00	1,340.68	2,976.21	798.47	20,543.38	70,096.94	114,577.58	4,681.96
17,834.83	1,046.71	750.24	1,654.39	5,038.81	1,710.60	139,778.55	5,430.45
.....	.....	.....	.....	.....	.....	.....	.....
30,353.10	909.82	5,009.91	1,133.69	18,223.22	78,948.86	73,323.11	13,418.63
48,187.93	1,956.53	5,760.15	2,788.08	23,262.03	80,659.46	213,101.66	18,849.08
79,527.96	6,750.50	12,206.12	11,686.55	57,054.88	165,137 81	726,983.95	35,124.89
7.6	56.2	31.9	71.0	28.0	13.1	60.5	35.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	North York Township	Norwich	N. Norwich. Township	S. Norwich Township	Oil Springs
Population		1,315			469
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	927.30	.....	.....	1,042.00
Substation equipment	.....	.....	.....	.....	.....
Distribution system, overhead	85,303.81	9,122.40	1,111.96	1,989.03	10,989.77
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	11,321.02	4,153.74	3,627.17	2,411.09	5,044.87
Meters	9,588.85	5,516.86	1,018.34	479.00	2,937.63
Street light equipment, regular	77.22	1,097.00	.....	.....	305.72
Street light equip., ornamental	.....	2,870.94	.....	.....	.....
Misc. construction expense	5,238.55	1,669.45	180.17	339.84	1,755.08
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	.....	3,509.82	.....	.....	.....
Total plant	111,529.45	28,867.51	5,937.64	5,218.96	22,075.07
Bank and cash balance	8,990.48	3,653.49	88.36	.....	5,327.48
Securities and investments	.....	6,000.00	.....	.....	.....
Accounts receivable	2,277.79	7,088.57	.....	.....	2,243.36
Inventories	421.35	278.11	.....	.....	483.09
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in Hydro systems	974.86	8,784.51	.....	.....	3,168.01
Other assets	352.86	.....	.....	.....	.....
Total assets	124,546.79	54,672.19	6,026.00	5,218.96	33,297.01
Deficit	.....	.....	.....	.....	.....
Total	124,546.79	54,672.19	6,026.00	5,218.96	33,297.01
LIABILITIES					
Debenture balance	78,464.04	10,244.18	4,665.71	3,921.57	13,079.30
Accounts payable	41,878.76	.....	.....	.....	1,492.50
Bank overdraft	.....	.....	.....	.....	.....
Other liabilities	246.00	.....	.....	.....	.....
Total liabilities	120,588.80	10,244.18	4,665.71	3,921.57	14,571.80
RESERVES					
For equity in H.E.P.C. systems	974.86	8,784.51	.....	.....	3,168.01
For depreciation	920.00	10,641.82	.....	.....	2,602.14
Total reserves	1,894.86	19,426.33	.....	.....	5,770.15
SURPLUS					
Debentures paid	2,007.55	3,511.82	1,360.29	1,297.39	3,642.01
Local sinking fund	.....	.....	.....	.....	.....
Additional operating surplus	55.58	21,489.86	.....	.....	9,313.05
Total surplus	2,063.13	25,001.68	1,360.29	1,297.39	12,955.06
Total liabilities, reserves & surplus	124,546.79	54,672.19	6,026.00	5,218.96	33,297.01
Percentage of net debt to total assets	97.5	22.3	77.4	75.1	48.3

"A"—Continued

Hydro Municipalities as at December 31, 1924

Otterville P.V.	Palmerston 1,820	Paris 4,345	Parkhill 1,192	Petrolia 2,836	Plattsville P.V.	Point Edward 1,116	Port Colborne 3,624
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	.....	7,626.26	13,555.48	900.00	.....	.....	5,112.77
.....	691.88	18,498.57	.....	2,403.55	.....	.....	.....
3,838.45	17,011.78	44,064.84	2,265.84	28,203.69	2,969.09	10,735.25	48,159.31
.....	.....	.....	3,056.35	.....	.....	.....	.....
1,774.43	4,911.85	14,702.07	846.78	21,747.50	906.14	5,045.33	13,713.72
1,480.39	4,746.01	15,702.63	.....	11,889.86	1,305.84	3,731.20	13,288.36
378.37	994.76	2,848.12	1,299.57	985.28	133.65	652.11	1,418.13
.....	.....	9,596.40	.....	3,864.07	.....	.....	.....
142.00	1,819.18	84.60	.....	5,497.64	535.92	503.14	4,935.49
.....	.....	.....	.....	.....	.....	.....	.....
.....	4,018.71	16,684.76	.....	3,389.94	.....	.....	9,929.60
7,613.64	34,194.17	129,808.25	21,024.02	78,881.53	5,850.64	20,667.03	96,557.38
1,339.09	1,053.90	2,444.87	2,366.34	.....	189.94	6,527.64	222.86
3,000.00	3,000.00	7,000.00	2,000.00	11,000.00	.....	.....	.....
566.60	8,613.22	4,365.53	884.09	7,664.02	252.07	1,512.53	9,156.00
19.38	3,352.51	116.25	.....	4,589.67	.....	.....	1,638.54
.....	.....	28,179.78	.....	.....	.....	.....	.....
899.71	4,658.94	16,296.69	842.70	14,357.56	2,748.30	3,140.73	7,033.25
.....	.....	.....	.....	.....	.....	.....	.....
13,438.42	54,872.74	188,211.37	27,117.15	116,492.78	9,040.95	31,847.93	114,608.03
.....	.....	.....	.....	.....	1,538.42	.....	.....
13,438.42	54,872.74	188,211.37	27,117.15	116,492.78	10,579.37	31,847.93	114,608.03
3,094.26	10,636.78	54,507.41	12,682.41	40,525.12	4,245.54	14,813.45	58,157.50
.....	2,311.89	.....	17.04	362.45	829.99	2,842.97	27,433.19
.....	.....	.....	.....	5,319.71	.....	.....	254.83
.....	.....	.....	.....	.....	.....	.....	185.00
3,094.26	12,948.67	54,507.41	12,699.45	46,207.28	5,075.53	17,656.42	86,030.52
899.71	4,658.94	16,296.69	842.70	14,357.56	2,748.30	3,140.73	7,033.25
1,663.52	5,970.41	33,220.23	1,923.00	13,535.46	1,764.08	3,776.00	5,753.00
2,563.23	10,629.35	49,516.92	2,765.70	27,893.02	4,512.38	6,916.73	12,786.25
1,405.74	16,363.22	37,492.59	1,947.61	9,474.88	991.46	2,186.55	7,842.50
.....	.....	28,179.78	.....	.....	.....	.....	.....
6,375.19	14,931.50	18,514.67	9,704.39	32,917.60	.....	5,088.23	7,948.76
7,780.93	31,294.72	84,187.04	11,652.00	42,392.48	991.46	7,274.78	15,791.26
13,438.42	54,872.74	188,211.37	27,117.15	116,492.78	10,579.37	31,847.93	114,608.03
24.6	25.7	18.3	48.3	45.2	80.6	61.5	79.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Port Credit	Port Dalhousie	Port Dover	Port Stanley	Preston
Population	1,134	1,467	1,573	726	5,576
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	675.00	.....	.....	1,505.38	.....
Substation equipment	.....	.....	.....	.....	36,545.06
Distribution system, overhead	15,020.65	11,110.79	21,242.52	15,156.59	64,048.76
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	4,551.17	4,918.85	5,076.70	5,952.24	35,992.61
Meters	5,337.56	6,405.41	3,405.31	3,141.85	27,865.56
Street light equipment, regular	638.03	627.45	1,501.84	903.93	3,811.99
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	626.31	1,720.76	2,370.66	5,606.55	6,085.76
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	.....	6,018.38	.....	577.51	32,126.75
Total plant	26,848.72	30,801.64	33,597.03	32,844.05	206,476.49
Bank and cash balance	.....	1,726.35	273.02	2,243.53	.....
Securities and investments	2,000.00	.....	.....	3,000.00	.....
Accounts receivable	879.98	1,190.85	1,632.15	2,336.50	7,599.39
Inventories	.....	.....	.....	.....	60.48
Sinking fund on local debentures	.....	503.94	.....	.....	.....
Equity in Hydro systems	3,653.73	3,281.56	864.78	8,276.33	46,669.27
Other assets	.....	.....	.....	.....	.....
Total assets	33,382.43	37,504.34	36,366.98	48,700.41	260,805.63
Deficit	.....	.....	.....	.....	.....
Total	33,382.43	37,504.34	36,366.98	48,700.41	260,805.63
LIABILITIES					
Debenture balance	5,500.19	18,051.61	25,881.32	13,535.39	76,152.48
Accounts payable	2,065.60	.....	.....	.....	472.65
Bank overdraft	1,211.97	.....	.....	.....	4,054.55
Other liabilities	.....	.....	1.00	.....	.....
Total liabilities	8,777.76	18,051.61	25,882.32	13,535.39	80.679.68
RESERVES					
For equity in H.E.P.C. systems	3,653.73	3,281.56	864.78	8,276.33	46,669.27
For depreciation	5,920.08	1,881.37	1,797.00	8,670.17	46,391.70
Total reserves	9,573.81	5,162.93	2,661.78	16,946.50	93,060.97
SURPLUS					
Debentures paid	2,999.81	4,448.39	3,118.68	5,414.61	56,647.52
Local sinking fund	.....	503.94	.....	.....	.....
Additional operating surplus	12,031.05	9,337.47	4,704.20	12,803.91	30,417.46
Total surplus	15,030.86	14,289.80	7,822.88	18,218.52	87,064.98
Total liabilities, reserves & surplus	33,382.43	37,504.34	36,366.98	48,700.41	260,805.63
Percentage of net debt to total assets	20.9	52.0	72.9	33.4	37.6

"A"—Continued

Hydro Municipalities as at December 31, 1924

Princeton P.V.	Queenston P.V.	Ridgetown 1,947	Riverside 3,034	Rockwood P.V.	Rodney 711	St. Catharines 21,194	St. Clair Beach 131
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	.....	.....	.....	79.00	.....	37,167.09	.....
.....	.....	1,024.24	.....	.....	.....	59,089.06	.....
2,875.20	6,476.71	14,882.83	41,848.18	5,941.83	6,686.88	153,358.18	5,374.20
.....	.....	.....	.....	.....	.....	.....	.....
630.92	1,076.50	6,738.31	11,900.97	1,370.61	1,494.68	67,216.67	1,514.68
741.86	1,188.12	7,001.79	10,791.62	1,764.14	2,546.33	58,141.58	785.99
116.30	409.49	903.00	.....	442.05	546.92	14,648.60	.....
.....	.....	1,319.10	.....	.....	.....	27,448.87	.....
64.35	1,948.71	1,273.67	3,675.95	308.05	769.70	36,562.45	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	5,088.46	.....	.....	700.00	8,241.00	.....
4,338.63	11,099.53	38,231.40	68,216.72	9,905.68	12,744.51	461,873.50	7,674.87
610.58	359.41	2,672.76	.....	643.91	1,952.93	7,403.18	.....
.....	.....	13,500.00	.....	.....	5,000.00	4,900.00	.....
209.67	16.10	2,474.84	5,905.46	396.17	1,298.20	15,596.07	2,164.56
50.32	.....	1,815.71	.....	206.47	.....	253.20	.....
.....	.....	.....	.....	.....	.....	32,637.86	.....
1,180.44	519.44	6,136.80	3,131.63	2,262.97	1,416.81	54,268.06	476.11
.....	.....	.....	.....	.....	.....	.....	.....
6,389.64	11,994.48	64,831.51	77,253.81	13,415.20	22,412.45	576,931.87	10,315.54
.....	.....	.....	.....	.....	.....	.....	.....
6,389.64	11,994.48	64,831.51	77,253.81	13,415.20	22,412.45	576,931.87	10,315.54
2,877.92	7,307.62	11,718.02	54,696.25	.....	7,359.28	201,837.34	5,990.27
.....	1,512.03	.....	4,288.75	.....	.....	25,051.11	552.44
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1,319.10	.....	.....	.....	30,448.87	.....
2,877.92	8,819.65	13,037.12	58,985.00	.....	7,359.28	257,337.32	6,542.71
1,180.44	519.44	6,136.80	3,131.63	2,262.97	1,416.81	54,268.06	476.11
1,091.28	539.00	6,679.60	3,214.69	2,859.26	2,038.69	79,821.42	292.00
2,271.72	1,058.44	12,816.40	6,346.32	5,122.23	3,455.50	134,089.48	768.11
672.08	692.38	7,737.97	2,803.75	2,000.00	1,140.72	30,185.57	351.18
.....	.....	.....	.....	.....	.....	32,637.86	.....
567.92	1,424.01	31,240.02	9,118.74	6,292.97	10,456.95	122,681.64	2,653.54
1,240.00	2,116.39	38,977.99	11,922.49	8,292.97	11,597.67	185,505.07	3,004.72
6,389.64	11,994.48	64,831.51	77,253.81	13,415.20	22,412.45	576,931.87	10,315.54
55.2	76.8	22.2	79.5	.....	35.0	45.8	66.5

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	St. George P.V.	St. Jacobs P.V.	St. Marys	St. Thomas	*Sandwich
Population			4,017	17,779	5,010
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings			3,000.00	41,969.65	
Substation equipment			24,010.37	85,271.91	1,787.27
Distribution system, overhead	3,609.13	5,181.12	39,037.17	89,964.35	60,112.05
Distribution system, underground				11,868.96	
Line transformers	1,175.69	2,252.24	15,089.01	40,799.17	25,766.27
Meters	1,781.54	1,539.36	17,682.40	52,466.07	25,546.31
Street light equipment, regular	228.77	311.60	2,854.46	13,416.00	450.56
Street light equip., ornamental				7,538.63	
Misc. construction expense	374.18	452.22	3,567.54	6,452.39	8,932.59
Steam or hydraulic plant					
Old plant			20,696.85		
Total plant	7,169.31	9,736.54	125,937.80	349,747.13	122,595.05
Bank and cash balance	1,363.61	23.86		23,527.12	4,417.55
Securities and investments	7,500.00	1,000.00		13,206.81	
Accounts receivable		232.46	6,697.82	27,582.60	3,665.99
Inventories	375.00		4,376.25	32,125.48	
Sinking fund on local debentures			6,505.31		
Equity in Hydro systems	2,141.06	1,099.12	25,486.45	81,162.74	3,816.99
Other assets				6,529.57	
Total assets	18,548.98	12,091.98	169,003.63	533,881.45	134,495.58
Deficit					
Total	18,548.98	12,091.98	169,003.63	533,881.45	134,495.58
LIABILITIES					
Debenture balance	4,933.48	4,577.30	47,003.04	75,520.03	83,246.76
Accounts payable	100.73	41.56	260.59	20,414.67	22,447.05
Bank overdraft			1,637.49		
Other liabilities			326.42	2,761.88	2,501.10
Total liabilities	5,034.21	4,618.86	49,227.54	98,696.58	108,194.91
RESERVES					
For equity in H.E.P.C. systems	2,141.06	1,099.12	25,486.45	81,162.74	3,816.99
For depreciation	1,941.00	708.93	33,680.75	73,238.86	7,483.19
Total reserves	4,082.06	1,808.05	59,167.20	154,401.60	11,300.18
SURPLUS					
Debentures paid	1,066.52	1,422.70	42,243.98	67,564.40	2,326.27
Local sinking fund			6,505.31		
Additional operating surplus	8,366.19	4,242.37	11,859.60	213,218.87	12,674.22
Total surplus	9,432.71	5,665.07	60,608.89	280,783.27	15,000.49
Total liabilities, reserves & surplus	18,548.98	12,091.98	169,003.63	533,881.45	134,495.58
Percentage of net debt to total assets	30.6	42.0	31.1	21.8	82.7

*Nine months' operation only.

"A"—Continued

Hydro Municipalities as at December 31, 1924

Sarnia 15,176	Scarboro' Twp.	Seaforth 1,902	Simcoe 4,049	Springfield 381	Stamford Twp.	Stouff-ville 1,115	Stratford 18,224
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
80,576.26	.....	1,251.57	2,028.78	.....	5,790.86	.....	113,052.86
118,073.40	.....	6,009.16	5,640.37	.....	14,713.82	.....	98,502.21
149,715.35	163,667.38	27,209.03	27,318.85	4,694.69	49,472.34	8,939.74	141,908.22
.....	.....	.....	.....	.....	.....	.....	.....
73,554.95	29,323.07	7,029.74	13,029.18	855.70	18,111.00	2,473.97	69,600.60
58,846.22	39,419.45	7,882.41	10,430.15	1,044.92	13,766.46	1,803.15	72,828.71
5,187.69	9,042.11	1,057.31	1,878.35	269.42	4,371.29	851.09	3,864.80
7,482.11	.....	.....	2,527.16	.....	.....	.....	14,257.32
19,696.92	*Cr* 3473.89	364.48	3,919.72	685.08	7,944.69	258.91	14,746.99
.....	.....	.....	.....	.....	.....	.....	.....
56,248.50	.....	.....	927.92	.....	13,743.66	3,866.37	16,150.00
569,381.40	237,978.12	50,803.70	67,700.48	7,549.81	127,914.12	18,193.23	544,911.71
.....	5,780.82	.30	844.35	945.71	·1,414.13	3,449.91	.....
.....	.....	7,000.00	.....	.....	.....	.....	.....
46,843.20	8,017.29	5,387.31	3,043.33	28.61	9,689.34	1,997.84	82,343.88
7,634.03	.....	3,938.22	.....	.....	2,885.24	.....	13,758.03
.....	.....	7,411.35	.....	.....	.....	.....	76,755.25
66,450.73	5,877.24	18,412.71	6,816.33	584.31	7,856.04	412.13	91,389.52
.....	.....	.....	.....	.....	1,040.00	.....	.....
690,309.36	257,653.47	92,953.59	78,404.49	9,108.44	150,798.87	24,053.11	809,158.39
.....	.....	.....	.....	.....	.....	.....	.....
690,309.36	257,653.47	92,953.59	78,404.49	9,108.44	150,798.87	24,053.11	809,158.39
237,288.53	177,383.59	25,000.00	32,890.03	1,203.93	91,998.76	17,724.36	412,000.00
23,931.45	1,091.40	565.00	1,563.19	500.11	5,174.21	1,051.27	35,518.15
33,963.61	.....	.....	.....	.....	.....	.....	1,889.29
9,871.67	9,401.73	.....	3,500.00	.....	1,040.00	.....	.....
305,055.26	187,876.72	25,565.00	37,953.22	1,704.04	98,212.97	18,775.63	449,407.44
66,450.73	5,877.24	18,412.71	6,816.33	584.31	7,856.04	412.13	91,389.52
75,786.91	15,155.31	15,240.35	11,005.09	137.00	12,669.49	281.00	103,263.71
142,237.64	21,032.55	33,653.06	17,821.42	721.31	20,525.53	693.13	194,653.23
60,711.47	13,184.68	.....	2,544.87	3,796.07	11,001.24	815.91	43,800.00
.....	.....	7,411.35	.....	.....	.....	.....	76,755.25
182,304.99	35,559.52	26,324.18	20,084.98	2,887.02	21,059.13	3,768.44	44,542.47
243,016.46	48,744.20	33,735.53	22,629.85	6,683.09	32,060.37	4,584.35	165,097.72
690,309.36	257,653.47	92,953.59	78,404.49	9,108.44	150,798.87	24,053.11	809,158.39
48.9	72.9	27.0	53.0	19.9	68.7	79.4	58.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Strathroy	Sutton	Tavistock	Tecumseh	Thamesford, P.V.
Population	2,642	847	1,027	1,133	
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	1,070.00	.....	234.02	.....	.....
Substation equipment	15,338.85	.....	.....	.....	.....
Distribution system, overhead	29,848.09	15,766.68	9,096.10	20,148.51	5,759.95
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	15,255.71	2,748.85	3,619.96	4,301.75	2,099.67
Meters	11,424.96	3,115.94	3,651.85	5,433.65	1,615.25
Street light equipment, regular	1,566.10	1,210.72	878.59	.....	176.85
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	850.44	1,464.39	628.49	1,262.48	214.02
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	12,343.15	675.00	.....	.....	.....
Total plant	87,697.30	24,981.58	18,109.01	31,146.39	9,865.74
Bank and cash balance	.....	871.75	806.71	.....	2,882.79
Securities and investments	.....	.....	7,343.70	.....	2,000.00
Accounts receivable	6,439.45	1,633.48	28.59	1,708.61	787.89
Inventories	9,005.47	.....	364.26	.....	.....
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in Hydro systems	13,568.44	289.52	5,546.07	1,233.51	3,286.08
Other assets	.....	54.10	.....	.....	.....
Total assets	116,710.66	27,830.43	32,198.34	34,088.51	18,822.50
Deficit	.....	.....	.....	.....	.....
Total	116,710.66	27,830.43	32,198.34	34,088.51	18,822.50
LIABILITIES					
Debenture balance	31,358.53	25,168.30	5,137.62	24,107.38	3,652.66
Accounts payable	350.00	304.06	1,310.71	3,917.60	.....
Bank overdraft	1,356.25	.....	.....	.....	.....
Other liabilities	.....	.....	.....	.....	.....
Total liabilities	33,064.78	25,472.36	6,448.33	28,024.98	3,652.66
RESERVES					
For equity in H.E.P.C. systems	13,568.44	289.52	5,546.07	1,233.51	3,286.08
For depreciation	16,397.44	457.00	2,560.69	1,591.87	2,991.63
Total reserves	29,965.88	746.52	8,106.76	2,825.38	6,277.71
SURPLUS					
Debentures paid	14,873.47	831.70	862.38	1,892.62	1,705.37
Local sinking fund	.....	.....	.....	.....	.....
Additional operating surplus	38,806.53	779.85	16,780.87	1,345.53	7,186.76
Total surplus	53,680.00	1,611.55	17,643.25	3,238.15	8,892.13
Total liabilities, reserves & surplus	116,710.66	27,830.43	32,198.34	34,088.51	18,822.50
Percentage of net debt to total assets	32.0	92.4	24.1	85.2	23.5

"A"—Continued

Hydro Municipalities as at December 31, 1924

Thamesville 785	Thedford 506	Thorndale P.V.	Thorold 5,033	Tilbury 1,981	Tillsonburg 3,086	Toronto 529,210	Toronto Twp.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	.....	.....	.....	969.46	2,224.27	1,741,041.25	.....
.....	.....	.....	.....	.....	13,947.52	3,558,216.32	.....
6,349.80	7,263.34	2,642.60	22,415.56	8,289.37	32,300.80	5,192,854.06	113,578.83
.....	.....	.....	.....	.....	.....	2,044,796.15	.....
2,616.60	1,233.74	1,362.40	8,625.45	6,063.41	9,121.48	1,338,772.86	22,065.97
2,871.66	1,669.43	1,108.91	14,946.97	4,518.17	10,806.70	1,850,026.12	15,285.93
342.92	843.20	86.49	1,814.01	398.98	2,782.69	333,763.59	2,087.75
.....	.....	.....	.....	.....	510.67	.....	.....
576.75	1,530.81	310.45	4,878.85	1,179.48	989.88	3,020,346.14	732.09
.....	.....	.....	17,643.54	.....	.....	*3,617,676.22	.....
4,445.68	433.78	.....	.....	3,049.47	.....	4,563,167.61	619.65
17,203.41	12,974.30	5,510.85	70,324.38	24,468.34	72,684.01	27,260,660.32	154,370.22
1,863.05	539.31	373.23	981.79	2,985.01	4,900.32	718,490.85	.....
8,000.00	4,500.00	.....	.....	8,000.00	13,000.00	500,000.00	.....
1,201.29	992.75	.....	8,272.23	3,073.12	9,400.03	1,507,517.99	7,274.80
.....	.....	29.07	.....	.....	2,138.16	1,096,126.92	.....
.....	.....	.....	.....	.....	.....	2,716,769.98	.....
2,471.62	317.78	2,868.52	5,527.28	5,022.29	18,442.68	2,206,948.50	6,988.17
.....	.....	.....	.....	.....	.....	.....	.....
30,739.37	19,324.14	8,781.67	85,105.68	43,548.76	120,565.20	36,006,514.56	168,633.19
.....	.....	.....	.....	.....	.....	.....	.....
30,739.37	19,324.14	8,781.67	85,105.68	43,548.76	120,565.20	36,006,514.56	168,633.19
8,391.21	15,072.01	2,178.21	4,218.56	11,153.66	20,769.10	22,162,945.90	69,452.83
.....	108.33	1,059.35	2,174.61	1,266.06	4,973.49	1,272,990.98	1,969.20
.....	.....	.....	.....	.....	.....	.....	712.02
.....	.....	.....	1,033.50	.....	.....	957,744.65	591.90
8,391.21	15,180.34	3,237.56	7,426.67	12,419.72	25,742.59	24,393,681.53	72,725.95
2,471.62	317.78	2,868.52	5,527.28	5,022.29	18,442.68	2,206,948.50	6,988.17
3,421.74	451.00	1,308.68	19,359.13	4,249.26	21,705.08	3,849,166.02	31,674.90
5,893.36	768.78	4,177.20	24,886.41	9,271.55	40,147.76	6,056,114.52	38,663.07
2,796.59	1,427.99	908.27	781.44	2,846.34	15,230.90	950,054.10	9,547.17
.....	.....	.....	.....	.....	.....	2,716,769.98	.....
13,658.21	1,947.03	458.64	52,011.16	19,011.15	39,443.95	1,889,894.43	47,697.00
16,454.80	3,375.02	1,366.91	52,792.60	21,857.49	54,674.85	5,556,718.51	57,244.17
30,739.37	19,324.14	8,781.67	85,105.68	43,548.76	120,565.20	36,006,514.56	168,633.19
29.6	79.8	54.7	9.3	32.2	25.2	69.7	44.9

*Work in progress.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Trafalgar Twp.	Vaughan Twp.	Walkerville	Wallaceburg	Wardsville
Population			7,469	4,530	195
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	.....	123,464.63	1,735.58	.....
Substation equipment	.....	.....	74,144.66	2,465.94	.....
Distribution system, overhead	16,214.92	3,776.06	66,526.65	38,293.44	4,424.43
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	5,264.00	3,370.44	44,717.61	22,838.76	601.14
Meters	2,377.34	2,540.63	42,076.28	14,457.37	614.85
Street light equipment, regular	.....	122.54	.....	2,089.26	497.73
Street light equip., ornamental	.....	.....	69,263.99	.....	.....
Misc. construction expense	1,567.63	517.44	34,882.51	7,223.42	488.73
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	.....	.....	18,335.05	19,205.49	193.94
Total plant	25,423.89	10,327.11	473,411.38	108,309.26	6,820.82
Bank and cash balance	1,635.93	360.33	4,595.35	25,836.43	345.85
Securities and investments	.....	.....	.....	.....	1,500.00
Accounts receivable	382.11	2,064.25	91,083.27	22,442.46	252.26
Inventories	.....	.....	23,244.74	7,619.48	.....
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in Hydro systems	.....	2,972.37	117,461.26	21,681.79	131.55
Other assets	.....	.....	.....	.....	.....
Total assets	27,441.93	15,724.06	709,796.00	185,889.42	9,050.48
Deficit	.....	.....	.....	.....	.....
Total	27,441.93	15,724.06	709,796.00	185,889.42	9,050.48
LIABILITIES					
Debenture balance	19,426.41	6,544.51	249,902.15	62,320.22	6,870.03
Accounts payable	1,533.29	.....	15,302.75	4,566.62	24.00
Bank overdraft	.....	.....	.....	.....	.....
Other liabilities	.....	.....	75,900.27	200.00	.....
Total liabilities	20,959.70	6,544.51	341,105.17	67,086.84	6,894.03
RESERVES					
For equity in H.E.P.C. systems	.....	2,972.37	117,461.26	21,681.79	131.55
For depreciation	4,295.80	4,305.62	64,243.73	17,875.19	378.00
Total reserves	4,295.80	7,277.99	181,704.99	39,556.98	509.55
SURPLUS					
Debentures paid	.....	1,455.49	49,356.85	9,216.36	692.37
Local sinking fund	.....	.....	.....	.....	.....
Additional operating surplus	2,186.43	446.07	137,628.99	70,029.24	954.53
Total surplus	2,186.43	1,901.56	186,985.84	79,245.60	1,646.90
Total liabilities, reserves & surplus	27,441.93	15,724.06	709,796.00	185,889.42	9,050.48
Percentage of net debt to total assets	76.3	51.3	57.5	40.8	77.2

"A"—Continued

Hydro Municipalities as at December 31, 1924

Waterdown 811	Waterford 1,065	Waterloo 6,096	Waterloo Twp.	Watford 1,059	Welland 8,636	Wellesley P.V.	West Lorne 812
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
200.00	.....	13,876.78	.....	.....	28,056.84	.....	.....
.....	.....	52,218.00	.....	.....	49,967.64	.....	.....
11,328.39	9,839.66	57,582.27	334.38	10,303.67	107,902.47	5,483.18	6,975.67
.....	.....	.....	.....	.....	.....	.....	.....
2,004.04	4,148.61	22,979.63	1,015.13	3,196.65	39,101.89	2,153.50	3,356.95
3,656.89	4,062.64	24,021.71	355.49	4,123.41	34,675.69	1,762.85	2,419.73
357.57	1,996.62	6,394.36	.....	609.48	3,955.54	545.11	567.97
.....	.....	.....	.....	.....	.....	.....	.....
112.34	442.53	5,830.72	33.88	1,327.20	10,654.84	128.57	311.16
.....	.....	2,333.64	.....	.....	.....	.....	.....
.....	720.33	24,527.03	.....	657.44	48,939.56	.....	1,250.00
17,659.23	21,210.39	209,764.14	1,738.88	20,217.85	323,254.47	10,073.21	14,881.48
2,721.47	709.37	.....	.....	5,284.25	64,441.96	847.36	1,050.90
5,500.00	6,000.00	.....	.....	.....	.....	.....	7,520.46
2,242.64	442.18	17,191.20	.....	392.36	87,535.41	248.85	961.92
39.00	13.90	3,808.40	.....	205.48	3,591.00	.....	.....
.....	.....	4,320.00	.....	.....	43,842.38	.....	.....
4,865.41	3,808.06	38,099.94	922.70	1,942.02	36,381.59	3,376.79	3,129.68
.....	.....	.....	.....	.....	.....	.....	.....
33,027.75	32,183.90	273,183.68	2,661.58	28,041.96	559,046.81	14,546.21	27,544.44
.....	.....	.....	.....	.....	38,825.58	.....	.....
33,027.75	32,183.90	273,183.68	2,661.58	28,041.96	597,872.39	14,546.21	27,544.44
3,561.61	.....	86,354.26	.....	6,771.77	271,970.93	5,482.09	6,998.46
.....	.....	5,625.64	1,738.88	.....	136,792.77	.....	1,081.95
.....	.....	2,618.77	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	39,727.67	.....	.....
3,561.61	.....	94,598.67	1,738.88	6,771.77	448,491.37	5,482.09	8,080.41
4,865.41	3,808.06	38,099.94	922.70	1,942.02	36,381.59	3,376.79	3,129.68
10,612.28	4,228.40	54,273.92	.....	2,461.37	66,127.98	268.00	2,253.65
15,477.69	8,036.46	92,373.86	922.70	4,403.39	102,509.57	3,644.79	5,383.33
4,438.39	7,745.53	19,645.74	.....	2,941.44	3,029.07	2,017.91	1,001.54
.....	.....	4,320.00	.....	.....	43,842.38	.....	.....
9,550.06	16,401.91	62,245.41	.....	13,925.36	.....	3,401.42	13,079.16
13,988.45	24,147.44	86,211.15	.....	16,866.80	46,871.45	5,419.33	14,080.70
33,027.75	32,183.90	273,183.68	2,661.58	28,041.96	597,872.39	14,546.21	27,544.44
12.6	....	39.1	100.0	25.9	84.5	49.0	33.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Weston	Wheatley	Windsor	Woodbridge	Woodstock
Population	3,569	647	42,122	675	10,196
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	3,514.15	.....	170,351.03	.....	29,075.01
Substation equipment	17,770.95	.....	312,110.66	.....	59,992.66
Distribution system, overhead	32,720.48	8,488.91	438,562.95	9,358.82	80,539.75
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	23,475.36	1,507.91	210,433.51	3,214.32	40,938.99
Meters	14,622.07	1,993.45	202,740.78	2,795.31	41,656.11
Street light equipment, regular	6,773.46	526.22	30,129.72	407.26	10,699.09
Street light equip., ornamental	20,730.78	.....	314,554.22	.....	.....
Misc. construction expense	5,976.66	466.78	95,195.09	642.82	17,314.05
Steam or hydraulic plant	.....	.....	.....	.....	14,673.62
Old plant	.....	2,569.50	114,609.06	.....	.....
Total plant	125,583.91	15,552.77	1,888,687.02	16,418.53	294,889.28
Bank and cash balance	18,582.84	262.98	275.00	594.62	9,437.02
Securities and investments	.....	.....	.....	5,000.00	.....
Accounts receivable	6,841.67	899.59	290,068.99	3,256.76	10,619.73
Inventories	537.62	.....	128,680.30	146.45	2,351.84
Sinking fund on local debentures	.....	.....	61,099.12	.....	27,180.26
Equity in Hydro systems	35,081.35	457.32	171,875.62	5,060.55	53,100.49
Other assets	.....	.....	1,792.98	.....	643.50
Total assets	186,627.39	17,172.66	2,542,479.03	30,476.91	398,222.12
Deficit	.....	.....	.....	.....	.....
Total	186,627.39	17,172.66	2,542,479.03	30,476.91	398,222.12
LIABILITIES					
Debenture balance	60,185.41	12,627.17	1,277,875.12	7,179.10	85,551.52
Accounts payable	4,974.53	1,700.39	82,874.39	851.28	8,540.73
Bank overdraft	.....	.....	8,156.76	.....	.....
Other liabilities	.....	.....	337,689.45	.....	2,893.50
Total liabilities	65,159.94	14,327.56	1,706,595.72	8,030.38	96,985.75
RESERVES					
For equity in H.E.P.C. systems	35,081.35	457.32	171,875.62	5,060.55	53,100.49
For depreciation	24,008.86	.....	130,539.25	4,133.17	60,995.03
Total reserves	59,090.21	457.32	302,414.87	9,193.72	114,095.52
SURPLUS					
Debentures paid	9,404.82	372.83	112,124.91	1,320.87	41,834.11
Local sinking fund	.....	.....	61,099.12	.....	27,180.26
Additional operating surplus	52,972.42	2,014.95	360,244.41	11,931.94	118,126.48
Total surplus	62,377.24	2,387.78	533,468.44	13,252.81	187,140.85
Total liabilities, reserves & surplus	186,627.39	17,172.66	2,542,479.03	30,476.91	398,222.12
Percentage of net debt to total assets	42.9	85.7	71.2	31.5	21.9

"A"—Continued

Hydro Municipalities as at December 31, 1924

				GEORGIAN BAY SYSTEM			
Wyoming	York Twp.	Zurich	NIAGARA SYSTEM SUMMARY	Alliston	Arthur	Barrie	Beaverton
503		P.V.		1,283	1,062	7,075	975
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	.....	.....	3,935,137.07	.....	.....	14,308.21	299.50
.....	.....	.....	6,253,167.79	675.73	.....	5,615.98	.....
6,650.35	540,990.80	6,115.81	11,822,423.23	21,264.05	15,877.47	39,831.90	17,040.28
.....	.....	.....	2,520,796.58	.....	.....	57,991.29	.....
1,012.00	.....	1,597.49	3,769,916.34	4,965.87	3,826.53	13,556.56	2,677.44
1,620.81	.....	1,637.50	4,337,439.78	5,069.09	2,605.82	29,051.53	3,623.27
275.52	27,503.86	415.04	886,729.09	1,417.38	694.47	5,321.09	688.47
.....	.....	.....	667,828.73	.....	.....	4,863.39	.....
805.20	16,872.79	250.77	3,856,749.76	2,537.92	255.62	1,000.00	2,228.57
.....	.....	.....	3,652,327.02	.....	.....	.....	.....
.....	.....	150.00	5,282,729.63	8,146.49	1,101.47	41,582.61	3,772.42
10,363.88	585,367.45	10,166.61	46,985,245.02	44,076.53	24,361.38	213,122.56	30,329.95
344.01	.....	.....	1,404,491.89	9.17	110.34	.....	3,017.19
.....	.....	4,000.00	863,409.93	.....	.....	13,632.24	.....
170.58	49,862.89	229.12	3,490,989.34	278.42	.....	9,725.33	3,768.09
.....	.....	.....	1,620,295.07	.....	.....	1,375.66	355.00
.....	.....	.....	3,781,049.63	.....	.....	.....	.....
1,390.33	.....	1,503.89	5,157,979.93	507.07	4,437.81	14,348.12	3,526.17
.....	154.71	.....	240,249.64	.....	.....	.....	.....
12,268.80	535,385.05	15,899.62	63,543,710.45	44,871.19	28,909.53	252,203.91	40,996.40
687.44	.....	.....	49,380.70	2,188.33	14,169.81	.....	.....
12,956.24	635,385.05	15,899.62	63,593,091.15	47,059.52	43,079.34	252,203.91	40,996.40
7,036.25	382,691.06	5,023.51	34,091,346.22	35,891.02	18,694.34	24,487.48	12,161.68
.....	168,805.40	.....	2,825,493.22	434.93	11,984.00	1,777.98	448.14
.....	2,451.94	470.00	145,852.72	.....	.....	9,788.05	.....
.....	.....	.....	1,721,246.39	.....	.....	700.00	.....
7,036.25	553,948.40	5,493.51	38,783,938.55	36,325.95	30,678.34	36,753.51	12,609.82
1,390.33	.....	1,503.89	5,157,979.93	507.07	4,437.81	14,348.12	3,526.17
1,865.91	35,383.91	1,475.42	6,890,526.45	6,117.52	5,657.53	32,243.40	4,511.57
3,256.24	35,383.91	2,979.31	12,048,506.38	6,624.59	10,095.34	46,591.52	8,037.74
2,663.75	17,308.94	568.10	2,696,307.72	4,108.98	2,305.66	62,512.52	2,838.32
.....	.....	.....	3,781,049.63	.....	.....	.....	.....
.....	28,743.80	6,858.70	6,283,288.87	.....	.....	106,346.36	17,510.52
2,663.75	46,052.74	7,426.80	12,760,646.22	4,108.98	2,305.66	168,858.88	20,348.84
12,956.24	635,385.05	15,899.62	63,593,091.15	47,059.52	43,079.34	252,203.91	40,996.40
64.6	87.2	38.1	64.1	81.9	125.3	10.9	33.7

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Beeton	Bradford	Brechin P.V.	Canning-ton	Chats-worth
Population	578	995		924	284
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings					65.00
Substation equipment	428.50	388.50			
Distribution system, overhead	11,130.67	15,120.95	1,531.32	8,517.40	3,821.67
Distribution system, underground					
Line transformers	1,893.20	1,362.34	936.80	2,465.25	667.69
Meters	1,323.08	2,400.23	451.37	3,147.75	832.42
Street light equipment, regular	1,138.14	544.95	118.36	583.37	309.78
Street light equip., ornamental					
Misc. construction expense	1,432.19	1,691.36	546.92	559.63	385.90
Steam or hydraulic plant					
Old plant				3,609.37	
Total plant	17,345.78	21,508.33	3,584.77	18,882.77	6,082.46
Bank and cash balance	66.83	550.35	520.70	960.91	1,087.55
Securities and investments					
Accounts receivable	551.42	1,050.09	464.43	2,841.85	519.36
Inventories	10.50			463.04	
Sinking fund on local debentures					1,420.14
Equity in Hydro systems	373.04	75.11	1,987.59	2,880.94	863.44
Other assets					
Total assets	18,347.57	23,183.88	6,557.49	26,029.51	9,972.95
Deficit	2,860.99	5,992.71	2,204.50		
Total	21,208.56	29,176.59	8,761.99	26,029.51	9,972.95
LIABILITIES					
Debenture balance	13,464.32	17,722.64	2,877.35	12,386.35	5,185.41
Accounts payable	3,233.11	6,379.76	2,672.67		
Bank overdraft					
Other liabilities					
Total liabilities	16,697.43	24,102.40	5,550.02	12,386.35	5,185.41
RESERVES					
For equity in H.E.P.C. systems	373.04	75.11	1,987.59	2,880.94	863.44
For depreciation	2,602.41	3,521.72	890.81	3,661.63	1,406.57
Total reserves	2,975.45	3,596.83	2,878.40	6,542.57	2,270.01
SURPLUS					
Debentures paid	1,535.68	1,477.36	333.57	2,613.65	214.59
Local sinking fund					1,420.14
Additional operating surplus				4,486.94	882.80
Total surplus	1,535.68	1,477.36	333.57	7,100.59	2,517.53
Total liabilities, reserves & surplus	21,208.56	29,176.59	8,761.99	26,029.51	9,972.95
Percentage of net debt to total assets	94.4	104.3	121.4	53.5	48.9

"A"—Continued

Hydro Municipalities as at December 31, 1924

Chesley 1,746	Coldwater 595	Collingwood 6,004	Cookstown P.V.	Creemore 630	Derby Twp.	Dundalk 727	Durham 1,640
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	275.00	13,018.17	60.00	.....	.....	.....	.....
595.98	.....	11,213.24	392.95	.....	.....	.....	584.88
17,653.72	6,617.73	40,309.27	8,641.78	5,500.00	217.37	6,280.81	16,570.77
.....	.....	.....	.....	.....	.....	.....	.....
4,141.66	2,810.07	12,464.98	1,811.45	1,318.57	73.32	2,063.00	5,483.08
5,080.58	1,997.24	19,140.73	1,254.57	1,996.72	32.05	1,620.75	3,749.97
1,017.36	372.82	2,750.86	514.21	272.07	.....	666.39	1,072.87
.....	.....	.....	.....	.....	.....	.....	.....
3,360.16	132.53	8,494.15	1,499.15	185.41	14.68	228.69	1,044.51
.....	.....	.....	.....	.....	.....	.....	.....
5,503.60	.....	473.20	.....	2,651.15	.....	380.94	1,506.51
37,353.06	12,205.39	107,864.60	14,174.11	11,923.92	337.42	11,240.58	30,012.59
717.88	6,848.08	10,581.40	1,257.69	4,476.36	.....	.....	5,723.84
.....	.....	25,000.00	1,000.00	5,000.00	.....	4,000.00	8,000.00
6,179.12	1,178.22	12,650.58	874.92	81.80	.....	1,573.18	3,885.61
100.00	.....	823.94	.....	5.76	.....	2.54	.....
.....	.....	.....	.....	.....	.....	.....	.....
5,559.00	1,819.73	32,826.08	237.45	2,173.61	.....	2,159.53	5,826.89
.....	.....	.....	.....	.....	.....	.....	.....
49,909.06	22,051.42	189,746.60	17,544.17	23,661.45	337.42	18,975.83	53,448.93
.....	.....	.....	123.04	.....	.....	.....	.....
49,909.06	22,051.42	189,746.60	17,667.21	23,661.45	337.42	18,975.83	53,448.93
19,138.89	5,590.62	17,331.65	11,936.32	4,171.06	.....	3,387.61	18,509.70
.....	280.94	3,668.22	1,517.76	43.23	337.42	240.00	1,573.22
.....	.....	.....	.....	.....	.....	79.69	.....
.....	.....	1,198.94	.....	.....	.....	.....	.....
19,138.89	5,871.56	22,198.81	13,454.08	4,214.29	337.42	3,707.30	20,082.92
5,559.00	1,819.73	32,826.08	237.45	2,173.61	.....	2,159.53	5,826.89
6,804.43	4,572.12	30,739.43	2,412.00	2,678.16	.....	2,437.78	5,422.81
12,363.43	6,391.85	63,565.51	2,649.45	4,851.77	.....	4,597.31	11,249.70
8,361.11	1,409.38	25,272.94	1,563.68	2,328.94	.....	2,949.29	7,290.30
.....	.....	.....	.....	.....	.....	.....	.....
10,045.63	8,378.63	78,709.34	.....	12,266.45	.....	7,721.93	14,826.01
18,406.74	9,788.01	103,982.28	1,563.68	14,595.39	.....	10,671.22	22,116.31
49,909.06	22,051.42	189,746.60	17,667.21	23,661.45	337.42	18,975.83	53,448.93
43.2	29.0	14.1	77.7	19.6	100.0	22.0	42.2

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Elmvale	Elmwood	Flesherton	Grand Valley	Hanover
Population	P.V.	P.V.	420	616	2,714
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	106.25	.....	.....	36.50	2,648.36
Substation equipment	.....	.....	.....	.....	9,271.19
Distribution system, overhead	6,976.98	4,683.38	4,682.18	9,553.60	45,333.15
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	2,652.64	803.88	324.62	1,229.29	13,956.23
Meters	2,238.67	696.57	911.55	1,991.00	12,239.34
Street light equipment, regular	349.02	302.28	384.61	458.21	2,291.18
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	455.93	1,093.62	887.26	205.70	6,398.62
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	.....	.....	.....	919.85	2,370.91
Total plant	12,779.49	7,579.73	7,190.22	14,394.15	94,508.98
Bank and cash balance	1,384.73	1,196.25	.....	553.83	5,891.49
Securities and investments	5,000.00	.....	.....	4,150.50	.....
Accounts receivable	689.66	.....	1,192.63	350.21	16,685.67
Inventories	115.07	.....	.....	.....	612.31
Sinking fund on local debentures	.....	174.72	.....	.....	.....
Equity in Hydro systems	2,892.36	379.03	1,210.44	1,999.57	18,964.92
Other assets	.....	.....	.....	.....	.....
Total assets	22,861.31	9,329.73	9,593.29	21,448.26	136,663.37
Deficit	.....	523.18	431.41	.....	.....
Total	22,861.31	9,852.91	10,024.70	21,448.26	136,663.37
LIABILITIES					
Debenture balance	5,322.96	5,696.64	5,641.14	8,040.36	72,054.36
Accounts payable	128.14	1,036.12	177.74	680.23	130.16
Bank overdraft	.....	.....	33.00	.....	.....
Other liabilities	.....	.....	.....	.....	.....
Total liabilities	5,451.10	6,732.76	5,851.88	8,720.59	72,184.52
RESERVES					
For equity in H.E.P.C. systems	2,892.36	379.03	1,210.44	1,999.57	18,964.92
For depreciation	4,310.49	1,063.04	1,903.52	2,891.55	14,657.60
Total reserves	7,202.85	1,442.07	3,113.96	4,891.12	33,622.52
SURPLUS					
Debentures paid	1,677.04	1,503.36	1,058.86	2,959.64	15,445.64
Local sinking fund	.....	174.72	.....	.....	.....
Additional operating surplus	8,530.32	.....	.....	4,876.91	15,410.69
Total surplus	10,207.36	1,678.08	1,058.86	7,836.55	30,856.33
Total liabilities, reserves & surplus	22,861.31	9,852.91	10,024.70	21,448.26	136,663.37
Percentage of net debt to total assets	27.8	74.7	69.8	44.8	61.3

"A"—Continued

Hydro Municipalities as at December 31, 1924

Holstein P.V.	Kincardine 2,113	Kirkfield P.V.	Lucknow 917	Markdale 865	Meaford 2,653	Midland 7,157	Mount Forest 1,734
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	4,493.41	.....	.....	.....	1,102.93	10,864.80	3,725.00
.....	2,794.20	.....	.....	780.80	2,484.99	45,644.94	764.51
2,054.15	35,114.33	5,041.33	14,416.02	7,536.73	24,607.60	78,876.87	18,453.07
.....	.....	.....	.....	.....	.....	.....	.....
455.22	6,361.24	571.00	2,084.04	2,108.87	5,229.65	15,166.07	3,683.70
400.52	6,368.88	404.95	2,461.00	1,961.20	4,977.50	27,804.12	4,654.22
168.69	3,791.43	379.00	1,040.95	756.51	2,153.83	5,434.52	1,990.81
.....	.....	.....	.....	.....	.....	.....	.....
181.03	5,595.95	301.53	2,099.08	549.06	2,208.84	7,965.91	2,048.28
.....	.....	.....	.....	.....	.....	14,515.62	.....
.....	.....	.....	.....	2,080.65	3,272.08	.....	3,958.97
3,259.61	64,519.44	6,697.81	22,101.09	15,773.82	46,037.42	206,272.85	39,278.56
608.55	288.71	333.44	703.32	542.52	10,567.81	8,756.35	614.18
.....	.....	.....	2,000.00	1,000.00	.....	.....	3,887.83
277.33	481.11	546.93	381.21	1,232.46	3,364.38	29,280.23	348.94
45.60	1,483.87	16.48	.....	311.72	.....	6,702.95	79.56
.....	.....	.....	.....	.....	.....	.....	.....
679.63	.....	.....	.....	1,345.72	.....	27,694.48	5,759.89
.....	.....	.....	.....	.....	.....	.....	.....
4,870.72	66,773.13	7,594.66	25,185.62	20,206.24	59,969.61	278,706.86	49,968.96
4,411.78	8,295.99	.....	.....	.....	.....	.....	.....
9,282.50	75,070.12	7,594.66	25,185.62	20,206.24	59,969.61	278,706.86	49,968.96
1,793.60	54,064.43	5,286.50	17,806.05	7,692.19	49,360.20	73,604.51	20,561.11
5,277.41	7,710.31	807.38	1,396.11	435.10	.....	11,548.88	792.49
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
7,071.01	61,774.74	6,093.88	19,202.16	8,127.29	49,360.20	85,153.39	21,353.60
679.63	.....	.....	.....	1,345.72	.....	27,694.48	5,759.89
563.41	3,159.81	661.00	1,197.00	3,153.87	811.00	42,814.98	7,461.80
1,243.04	3,159.81	661.00	1,197.00	4,499.59	811.00	70,509.46	13,221.69
963.45	10,135.57	713.50	1,917.31	1,307.81	.....	38,465.48	10,397.49
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	126.28	2,869.15	6,271.55	9,798.41	84,578.53	4,996.18
968.45	10,135.57	839.78	4,786.46	7,579.36	9,798.41	123,044.01	15,393.67
9,282.50	75,070.12	7,594.66	25,185.62	20,206.24	59,969.61	278,706.86	49,968.96
168.7	92.5	80.2	76.2	43.1	82.3	33.9	48.3

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Neustadt	Orange-ville	Owen Sound	Paisley	Penetang-uishene
Population	452	2,611	12,218	735	3,945
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	2,548.95	28,953.74	.....	2,151.00
Substation equipment	.....	1,169.00	11,401.18	.....	4,040.66
Distribution system, overhead	9,716.32	22,827.17	77,069.32	9,802.30	36,439.99
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	4,243.29	3,702.43	30,418.52	1,155.68	13,338.66
Meters	1,695.45	6,008.88	42,624.22	1,946.60	11,127.72
Street light equipment, regular	496.41	1,149.67	11,111.25	1,017.86	2,464.90
Street light equip., ornamental	.....	.....	500.00	.....	.....
Misc. construction expense	1,495.88	3,406.09	2,036.30	650.40	2,368.02
Steam or hydraulic plant	.....	.....	33,282.00	.....	.....
Old plant	1,097.60	3,204.99	.....	1,745.00	2,124.20
Total plant	18,744.95	44,017.18	237,396.53	16,317.84	74,055.15
Bank and cash balance	.....	111.29	.....	1,097.82	20,109.83
Securities and investments	.....	.....	.....	.....	.....
Accounts receivable	972.22	537.78	17,615.68	1,803.72	3,810.52
Inventories	51.37	526.04	11,352.24	.....	1,100.93
Sinking fund on local debentures	.....	.....	75,231.09	.....	.....
Equity in Hydro systems	1,070.88	5,038.85	30,353.20	.....	18,510.21
Other assets	.....	.....	2,315.96	.....	.....
Total assets	20,839.42	50,231.14	374,264.70	19,219.38	117,586.64
Deficit	4,627.96	3,871.66	.....	.....	.....
Total	25,467.38	54,102.80	374,264.70	19,219.38	117,586.64
LIABILITIES					
Debenture balance	14,023.71	25,706.53	95,000.00	15,541.13	30,109.61
Accounts payable	4,642.25	4,465.75	6,421.42	27.02	.....
Bank overdraft	113.75	.....	2,688.16	.....	.....
Other liabilities	.....	.....	2,108.99	.....	.....
Total liabilities	18,779.71	30,172.28	106,218.57	15,568.15	30,109.61
RESERVES					
For equity in H.E.P.C. systems	1,070.88	5,038.85	30,353.20	.....	18,510.21
For depreciation	2,640.50	8,698.20	37,199.50	273.00	22,214.17
Total reserves	3,711.38	13,737.05	67,552.70	273.00	40,724.38
SURPLUS					
Debentures paid	2,976.29	10,193.47	46,000.00	458.87	10,890.39
Local sinking fund	.....	.....	75,231.09	.....	.....
Additional operating surplus	.....	.....	79,262.34	2,919.36	35,862.26
Total surplus	2,976.29	10,193.47	200,493.43	3,378.23	46,752.65
Total liabilities, reserves & surplus	25,467.38	54,102.80	374,264.70	19,219.38	117,586.64
Percentage of net debt to total assets	95.0	66.7	11.5	81.0	30.4

"A"—Continued

Hydro Municipalities as at December 31, 1924

Port McNicoll 650	Port Perry 1,115	Priceville P.V.	Ripley P.V.	Shelburne 1,093	Stayner 1,030	Sunderland P.V.	Tara 502
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
202.60	.....	68.00	.....	800.00	.....	.....	.....
.....	.....	.....	.....	566.60	200.00	.....	.....
6,279.95	15,130.27	4,625.00	8,778.58	12,993.21	9,577.50	3,453.21	10,275.23
.....	.....	.....	.....	.....	.....	.....	.....
693.42	1,996.40	549.70	2,592.36	3,251.98	3,274.29	1,454.65	1,706.89
1,446.23	2,903.33	318.25	640.91	3,715.34	3,466.62	1,594.02	1,224.13
190.73	397.89	139.88	850.83	971.65	790.02	240.33	430.59
.....	.....	.....	.....	.....	.....	.....	.....
496.42	54.78	833.90	1,164.99	2,189.46	310.33	142.22	1,243.96
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	739.50	4,132.41	2,030.00	.....
9,309.35	20,482.67	6,534.73	14,027.67	25,227.74	21,751.17	8,914.43	14,880.80
1,050.06	1,463.66	31.66	428.49	2,803.39	4,399.85	754.54	1,702.46
.....	5,000.00	.....	.....	.....	4,000.00	.....	.....
195.70	2,515.56	.....	49.54	3,132.65	497.16	402.83	369.53
11.96	.....	.....	.....	.....	67.03	.....	13.97
.....	.....	.....	.....	.....	.....	.....	.....
693.56	.....	.....	.....	3,192.74	2,968.98	2,580.37	743.87
.....	.....	.....	.....	360.51	.....	.....	.....
11,260.63	29,461.89	6,566.39	14,505.70	34,717.03	33,684.19	12,652.17	17,710.63
.....	.....	1,553.11	938.62	.....	.....	.....	6,447.12
11,260.63	29,461.89	8,119.50	15,444.32	34,717.03	33,684.19	12,652.17	24,157.75
5,548.55	19,881.66	5,998.31	13,141.92	14,135.03	8,992.13	5,331.41	12,725.55
171.25	60.00	772.50	727.38	1,072.08	593.09	1,228.01	5,348.63
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
5,719.80	19,941.66	6,770.81	13,869.30	15,207.11	9,585.22	6,559.42	18,074.18
693.56	.....	.....	.....	3,192.74	2,968.98	2,580.37	743.87
1,884.00	798.00	347.00	745.00	4,991.19	4,719.58	1,717.12	2,565.25
2,577.56	798.00	347.00	745.00	8,183.93	7,688.56	4,297.49	3,309.12
1,751.45	.....	1,001.69	830.02	5,784.97	5,007.87	1,468.59	2,774.45
.....	.....	.....	.....	.....	.....	.....	.....
1,211.82	8,722.23	.....	.....	5,541.02	11,402.54	326.67	.....
2,963.27	8,722.23	1,001.69	830.02	11,325.99	16,410.41	1,795.26	2,774.45
11,260.63	29,461.89	8,119.50	15,444.32	34,717.03	33,684.19	12,652.17	24,157.75
54.1	67.7	103.1	95.6	48.2	31.2	65.1	106.5

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Teeswater	Thornton P.V.	Tottenham	Uxbridge	Victoria Harbour
Population	813		519	1,453	1,453
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings					
Substation equipment	330.31		358.50		
Distribution system, overhead	14,200.65	6,208.37	7,836.91	10,716.61	6,917.09
Distribution system, underground					
Line transformers	2,686.57	744.86	1,117.48	2,395.73	991.50
Meters	2,124.39	457.41	1,570.42	2,390.91	2,109.12
Street light equipment, regular	1,297.97	375.90	460.17	1,187.43	298.17
Street light equip., ornamental					
Misc. construction expense	1,727.00	300.35	1,346.93	793.42	642.64
Steam or hydraulic plant					
Old plant	4,976.86		361.45		
Total plant	27,343.75	8,086.89	13,051.86	17,484.10	10,958.52
Bank and cash balance		372.16	1,306.71	286.40	3,224.44
Securities and investments				6,000.00	
Accounts receivable	840.11		104.24	2,774.42	86.14
Inventories				18.00	
Sinking fund on local debentures	3,314.55				
Equity in Hydro systems		169.81	63.82		1,064.92
Other assets				50.00	
Total assets	31,498.41	8,628.86	14,526.63	26,612.92	15,334.02
Deficit	1,709.80	3,670.23	3,758.26		
Total	33,208.21	12,299.09	18,284.89	26,612.92	15,334.02
LIABILITIES					
Debenture balance	26,187.19	6,453.76	7,904.06	16,207.59	4,401.70
Accounts payable	556.81	3,170.28	6,021.15		210.00
Bank overdraft	682.93				
Other liabilities					
Total liabilities	27,426.93	9,624.04	13,925.21	16,207.59	4,611.70
RESERVES					
For equity in H.E.P.C. systems		169.81	63.82		1,064.92
For depreciation	653.92	1,459.00	1,732.82	650.00	2,288.37
Total reserves	653.92	1,628.81	1,796.64	650.00	3,353.29
SURPLUS					
Debentures paid	1,812.81	1,046.24	2,563.04		2,098.30
Local sinking fund	3,314.55				
Additional operating surplus				9,755.33	5,270.73
Total surplus	5,127.36	1,046.24	2,563.04	9,755.33	7,369.03
Total liabilities, reserves & surplus	33,208.21	12,299.09	18,284.89	26,612.92	15,334.02
Percentage of net debt to total assets	85.5	113.7	96.3	60.9	32.3

"A"—Continued

Hydro Municipalities as of December 31, 1924

				MUSKOKA SYSTEM		
Waubaushene P.V.	Wingham 2,440	Woodville 458	GEORGIAN BAY SYSTEM SUMMARY	Gravenhurst 1,609	Huntsville 2,286	MUSKOKA SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	8,508.05	.....	94,235.47	12,952.29	326.49	13,278.78
.....	4,830.84	.....	104,533.48	12,772.68	647.30	13,419.98
3,624.64	30,287.55	2,187.60	802,204.02	27,899.02	11,743.35	39,642.37
.....	.....	.....	57,991.29	.....	.....	.....
684.19	12,139.54	1,033.77	207,316.17	1,853.29	3,609.60	5,462.89
1,142.37	8,341.61	1,406.08	248,740.70	5,421.18	5,905.23	11,326.41
164.14	3,107.97	127.31	64,254.70	695.45	1,178.85	1,874.30
.....	.....	.....	5,363.39	.....	.....	.....
257.66	3,736.12	251.91	81,036.98	1,679.50	594.92	2,274.42
.....	13,200.00	.....	60,997.62	.....	.....	.....
.....	12,551.68	2,182.50	116,476.41	7,610.69	5,436.20	13,046.89
5,873.00	96,703.36	7,189.17	1,843,150.23	70,884.10	29,441.94	100,326.04
2,413.97	30.00	1,772.52	110,728.72	2,776.09	9,563.89	12,339.98
.....	5,000.00	.....	92,670.57	.....	.....	.....
50.29	5,887.21	2,063.27	144,161.75	5,130.34	288.76	5,419.10
.....	2,298.34	20.80	27,964.68	1,727.69	2,588.66	4,316.35
.....	.....	.....	80,140.50	3,804.96	.....	3,804.96
545.23	.....	2,646.60	210,170.66	3,199.03	9,615.48	12,814.51
.....	.....	.....	2,726.47	.....	.....	.....
8,882.49	109,918.91	13,692.36	2,511,713.58	87,522.21	51,498.73	139,020.94
.....	.....	.....	67,779.50	.....	.....	.....
8,882.49	109,918.91	13,692.36	2,579,493.08	87,522.21	51,498.73	139,020.94
2,406.64	66,258.27	4,503.31	950,318.55	32,155.78	13,553.03	45,708.81
246.68	628.25	213.65	101,287.65	798.86	1,940.89	2,739.75
.....	31.72	.....	13,417.30	.....	.....	.....
.....	15.00	.....	4,022.93	.....	.....	.....
2,653.32	66,933.24	4,716.96	1,069,046.43	32,954.64	15,493.92	48,448.56
545.23	.....	2,646.60	210,170.66	3,199.03	9,615.48	12,814.51
1,171.51	6,983.42	1,111.90	305,172.41	12,913.85	5,616.61	18,530.46
1,716.74	6,983.42	3,758.50	515,343.07	16,112.88	15,232.09	31,344.97
1,093.36	29,847.23	996.69	342,261.85	31,812.66	7,580.51	39,393.17
.....	.....	.....	80,140.50	3,804.96	.....	3,804.96
3,419.07	6,155.02	4,220.21	572,701.23	2,837.07	13,192.21	16,029.28
4,512.43	36,002.25	5,216.90	995,103.58	38,454.69	20,772.72	59,227.41
8,882.49	109,918.91	13,692.36	2,579,493.08	87,522.21	51,498.73	139,020.94
31.8	60.9	42.7	44.5	36.2	37.0	36.5

STATEMENT

Balance Sheets of Electrical Departments of

ST. LAWRENCE SYSTEM

Municipality	Alexandria	Apple Hill P.V.	Brockville	Chesterville	Lancaster
Population	2,255		9,384	865	601
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	202.00	169.06	27,994.53	250.00	.....
Substation equipment	.....	.....	.....	.....	.....
Distribution system, overhead	25,364.32	2,733.78	64,539.81	6,507.28	6,092.85
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	6,703.61	1,165.70	22,602.38	2,195.32	1,064.35
Meters	5,569.95	683.95	30,568.81	2,762.93	1,147.03
Street light equipment, regular	2,014.34	398.97	15,957.28	328.57	575.05
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	5,435.33	192.84	5,374.54	610.68	1,053.60
Steam or hydraulic plant	.....	.....	.....	.....	.....
Old plant	4,466.89	709.55	52,997.94	.....	.....
Total plant	49,756.44	6,053.85	220,035.29	12,654.78	9,932.88
Bank and cash balance	272.05	133.19	13,830.62	4,112.96	352.54
Securities and investments	.....	.....	56,606.50	.....	.....
Accounts receivable	1,615.43	225.06	20,818.12	2,680.50	98.92
Inventories	97.17	.....	3,045.21	1,261.41	.....
Sinking fund on local debentures	.....	.....	73,260.14	.....	.....
Equity in Hydro systems	.....	.....	19,844.37	6,302.13	.....
Other assets	.....	.....	248.58	.....	.....
Total assets	51,741.09	6,412.10	407,688.83	27,011.78	10,384.34
Deficit	352.61	146.32	.....	.....	6,773.55
Total	52,093.70	6,558.42	407,688.83	27,011.78	17,157.89
LIABILITIES					
Debenture balance	38,960.24	5,511.29	155,189.49	4,538.38	8,424.42
Accounts payable	2,736.07	255.42	2,046.40	.....	6,645.47
Bank overdraft	.....	.....	.....	.....	.....
Other liabilities	90.00	.....	.....	960.00	.....
Total liabilities	41,786.31	5,766.71	157,235.89	5,498.38	15,069.89
RESERVES					
For equity in H.E.P.C. systems	.....	.....	19,844.37	6,302.13	.....
For depreciation	2,133.79	303.00	18,924.00	3,850.82	542.00
Total reserves	2,133.79	303.00	38,768.37	10,152.95	542.00
SURPLUS					
Debentures paid	8,173.60	488.71	71,468.05	1,961.62	1,546.00
Local sinking fund	.....	.....	73,260.14	.....	.....
Additional operating surplus	.....	.....	66,956.38	9,398.83	.....
Total surplus	8,173.60	488.71	211,684.57	11,360.45	1,546.00
Total liabilities, reserves & surplus	52,093.70	6,558.42	407,688.83	27,011.78	17,157.89
Percentage of net debt to total assets	80.7	86.4	26.7	26.5	145.1

"A"—Continued

Hydro Municipalities as at December 31, 1924

Martintown P.V.	Maxville 763	Prescott 2,597	Williamsburg P.V.	Winchester 1,090	ST. LAWRENCE SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
126.15	.....	2,761.54	.....	299.85	31,803.13
.....	407.79	.....	.....	.....	407.79
2,523.11	10,912.55	31,247.21	1,608.59	7,986.43	159,515.93
.....	.....	.....	.....	.....	.....
690.33	1,732.20	8,413.04	297.89	1,362.39	46,227.21
585.75	2,263.32	10,992.91	772.22	3,045.42	58,392.29
335.26	1,379.56	1,649.64	152.11	564.98	23,355.76
.....	.....	.....	.....	.....	.....
653.27	2,414.49	1,551.68	4.00	343.94	17,634.37
.....	.....	.....	.....	.....	.....
.....	.....	12,108.35	.....	1,100.00	71,382.73
4,913.87	19,109.91	68,724.37	2,834.81	14,703.01	408,719.21
.....	.....	669.15	1,482.21	9,363.02	30,215.74
1,000.00	.....	7,000.00	.....	.....	64,606.50
78.93	229.85	10,319.15	81.91	2,965.14	39,113.01
.....	.....	.....	.....	1,759.86	6,163.65
.....	.....	3,512.75	.....	.....	76,772.89
.....	.....	4,767.13	464.64	2,976.78	34,355.05
.....	.....	.....	.....	.....	248.58
5,992.80	19,339.76	94,992.55	4,863.57	31,767.81	660,194.63
271.93	2,213.44	.....	.....	.....	9,757.85
6,264.73	21,553.20	94,992.55	4,863.57	31,767.81	669,952.48
5,286.49	14,007.47	15,286.56	1,703.83	8,876.28	257,784.45
17.50	3,368.76	1,236.66	14.73	1,483.17	17,804.18
23	1,314.65	.....	.....	.....	1,314.88
.....	.....	.....	.....	.....	1,050.00
5,304.22	18,690.88	16,523.22	1,718.56	10,359.45	277,953.51
.....	.....	4,767.13	464.64	2,976.78	34,355.05
247.00	869.79	18,474.00	874.90	4,105.82	50,325.12
247.00	869.79	23,241.13	1,339.54	7,082.60	84,680.17
713.51	1,992.53	8,692.78	1,046.17	1,773.72	97,856.69
.....	.....	3,512.75	.....	.....	76,772.89
.....	.....	43,022.67	759.30	12,552.04	132,689.22
713.51	1,992.53	55,228.20	1,805.47	14,325.76	307,318.80
6,264.73	21,553.20	94,992.55	4,863.57	31,767.81	669,952.48
90.0	96.6	15.0	39.0	36.0	36.6

STATEMENT

Balance Sheets of Electrical Departments of

RIDEAU SYSTEM

Municipality Population	Carleton Place 4,254	Kempt-ville 1,175	Lanark 591	Perth . 3,710	Smiths Falls 6,592
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	5,688.32	.....	.....	6,600.50	20,388.10
Substation equipment	2,471.63	.....	.....	3,492.82	4,845.66
Distribution system, overhead	28,363.40	16,458.09	4,867.28	34,857.12	67,800.86
Distribution system, underground	.....	.....	.....	.....	.....
Line transformers	10,258.06	3,724.33	639.33	15,496.86	16,986.95
Meters	12,069.39	3,539.81	1,049.47	15,702.96	23,463.47
Street light equipment, regular	887.81	998.18	633.84	2,642.35	2,097.05
Street light equip., ornamental	.....	.....	.....	.....	.....
Misc. construction expense	8,457.03	5,493.38	276.12	5,206.93	7,085.25
Steam or hydraulic plant	.....	.....	.....	23,395.26	38,251.49
Old plant	.....	.....	.....	2,674.25	21,443.20
Total plant	68,195.64	30,213.79	7,466.04	110,069.05	202,362.03
Bank and cash balance	9,470.13	6,107.64	2,344.54	75.00	6,234.63
Securities and investments	.....	5,000.00	.....	.....	15,000.00
Accounts receivable	9,029.52	1,541.33	240.50	41,165.51	2,205.13
Inventories	1,204.40	412.23	.....	7,505.06	568.74
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in Hydro systems	.....	.....	.....	.....	5,247.43
Other assets	.....	.....	.....	.....	532.95
Total assets	87,899.69	43,274.99	10,051.08	158,814.62	232,150.91
Deficit	.....	.....	.....	.....	3,756.63
Total	87,899.69	43,274.99	10,051.08	158,814.62	235,907.54
LIABILITIES					
Debenture balance	61,014.90	23,616.67	6,782.56	100,817.44	158,384.60
Accounts payable	1,034.13	1,896.22	.....	2,210.37	1,787.51
Bank overdraft	.....	.....	.....	1,023.20	.....
Other liabilities	185.64	.....	.....	.....	.....
Total liabilities	62,234.67	25,512.89	6,782.56	104,051.01	160,172.11
RESERVES					
For equity in H.E.P.C. systems	.....	.....	.....	.....	5,247.43
For depreciation	9,695.36	1,448.00	329.02	14,885.03	31,247.60
Total reserves	9,695.36	1,448.00	329.02	14,885.03	36,495.03
SURPLUS					
Debentures paid	4,985.10	1,383.33	778.91	7,582.56	39,240.40
Local sinking fund	.....	.....	.....	.....	.....
Additional operating surplus	10,984.56	14,930.77	2,160.59	32,296.02	.....
Total surplus	15,969.66	16,314.10	2,939.50	39,878.58	39,240.40
Total liabilities, reserves & surplus	87,899.69	43,274.99	10,051.08	158,814.62	235,907.54
Percentage of net debt to total assets	70.8	58.9	67.5	66.2	70.6

"A"—Continued

Hydro Municipalities as at December 31, 1924

	THUNDER BAY SYSTEM	OTTAWA SYSTEM	TRENT SYSTEM				
RIDEAU SYSTEM SUMMARY	Port Arthur 15,681	Ottawa 116,205	Bloomfield 625	Havelock 1,255	Kingston 21,975	Lakefield 1,250	Marmora 794
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
32,676.92	67,256.15	197,912.77	.....	.....	109,130.94	86.89	.....
10,810.11	89,588.32	241,579.87	.....	572.90	.....	.....	.....
152,346.75	286,824.05	494,591.88	7,333.93	17,957.88	113,501.21	18,085.62	11,861.71
.....	.....	239,298.90	.....	.....	55,359.36	.....	.....
47,105.53	31,614.25	200,515.51	1,119.31	2,054.41	42,447.96	2,519.11	1,488.30
55,825.10	58,289.07	190,100.15	1,874.05	4,773.57	75,398.25	4,683.37	2,373.78
7,259.23	31,286.22	62,682.61	622.90	1,801.28	12,737.14	1,464.21	1,088.59
.....	.....	29,978.05	.....	.....	25,127.91	.....	.....
26,518.71	27,312.55	33,197.05	1,403.42	4,682.33	43,826.18	3,337.14	2,000.91
61,646.75	348,096.93	.....	.....	.....	73,735.13	.....	.....
24,117.45	.....	.....	.....	2,420.45	42,180.11	3,445.25	573.62
418,306.55	940,267.54	1689,856.79	12,353.61	34,262.82	593,444.19	33,621.59	19,386.91
24,231.94	61,832.61	19,677.78	1,124.12	1,767.94	21,133.25	9,470.97	2,366.79
20,000.00	265,935.58	.....	.....	.....	.....	.....	.....
54,181.99	65,778.48	46,591.62	1,414.16	1,311.78	14,098.76	1,035.86	2,578.90
9,690.43	29,030.92	23,811.88	.....	.....	9,968.57	.....	.....
.....	153,906.53	311,254.93	.....	.....	54,942.59	.....	.....
5,247.43	.....	.....	.....	.....	.....	.....	.....
532.95	874.34	60.00	.....	.....	.....	.....	.....
532,191.29	1517,626.00	2091,253.00	14,891.89	37,342.54	693,587.36	44,128.42	24,332.60
3,756.63	.....	.....	.....	.....	.....	.....	.....
535,947.92	1517,626.00	2091,253.00	14,891.89	37,342.54	693,587.36	44,128.42	24,332.60
350,616.17	442,776.16	972,056.38	10,113.62	29,239.16	252,217.49	31,790.71	15,154.67
6,928.23	96,296.71	45,097.41	23.13	.....	.....	259.14	39.17
1,023.20	.....	.....	.....	.....	.....	.....	.....
185.64	7,927.51	.....	.....	.....	.....	.....	.....
358,753.24	547,000.38	1017,153.79	10,136.75	29,239.16	252,217.49	32,049.85	15,193.84
5,247.43	.....	.....	.....	.....	.....	.....	.....
57,605.01	175,821.44	496,397.17	1,482.00	1,512.85	37,591.42	2,525.54	744.17
62,852.44	175,821.44	496,397.17	1,482.00	1,512.85	37,591.42	2,525.54	744.17
53,970.30	193,323.84	7,943.62	1,086.38	3,660.84	59,682.50	1,709.29	2,511.44
.....	153,906.53	311,254.93	.....	.....	54,942.59	.....	.....
60,371.94	447,573.81	258,503.49	2,186.76	2,929.69	289,153.36	7,843.74	5,883.15
114,342.24	794,804.18	577,702.04	3,273.14	6,590.53	403,778.45	9,553.03	8,394.59
535,947.92	1517,626.00	2091,253.00	14,891.89	37,342.54	693,587.36	44,128.42	24,332.60
68.1	28.8	39.7	68.1	78.3	30.9	72.6	62.4

STATEMENT

Balance Sheets of Electrical Departments of

TRENT SYSTEM—Continued

Municipality	Norwood	Omemee	Peterboro	Picton
Population	765	450	21,605	3,135
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	.....	.....	75,337.79	1,405.07
Substation equipment	457.53	360.32	81,888.48	989.69
Distribution system, overhead	22,551.21	9,601.17	133,798.61	28,074.86
Distribution system, underground	.....	.....	.....	.....
Line transformers	3,482.24	2,372.39	73,259.13	6,048.82
Meters	4,043.07	2,171.63	68,827.08	10,006.85
Street light equipment, regular	1,802.02	436.78	30,146.57	1,596.62
Street light equip., ornamental	.....	.....	.....	.....
Misc. construction expense	3,959.86	1,540.92	53,203.87	3,250.20
Steam or hydraulic plant	.....	.....	.....	.....
Old plant	2,447.51	.....	17,410.71	3,739.98
Total plant	38,743.44	16,483.21	533,872.24	55,112.09
Bank and cash balance	4,147.97	.....	25,396.44	8,365.10
Securities and investments	.....	.....	.....	23,000.00
Accounts receivable	305.09	85.06	17,468.67	9,287.31
Inventories	.....	.....	10,847.36	3,271.23
Sinking fund on local debentures	.....	.....	58,851.03	.....
Equity in Hydro systems	.....	.....	.....	.....
Other assets	178.78	.....	5,296.76	.....
Total assets	43,375.28	16,568.27	651,732.50	99,035.73
Deficit	.....	.....	.....	.....
Total	43,375.28	16,568.27	651,732.50	99,035.73
LIABILITIES				
Debenture balance	35,159.67	9,485.50	430,000.00	2,715.29
Accounts payable	12.09	.....	10,620.91	1,812.00
Bank overdraft	.....	492.61	.....	.....
Other liabilities	165.00	.....	45,966.80	.....
Total liabilities	35,336.76	9,978.11	486,587.71	4,527.29
RESERVES				
For equity in H.E.P.C. systems	.....	.....	.....	.....
For depreciation	1,971.04	2,290.29	47,507.93	2,959.43
Total reserves	1,971.04	2,290.29	47,507.93	2,959.43
SURPLUS				
Debentures paid	1,940.33	2,514.50	.....	3,015.03
Local sinking fund	.....	.....	58,851.03	.....
Additional operating surplus	4,127.15	1,785.37	58,785.83	88,533.98
Total surplus	6,067.48	4,299.87	117,636.86	91,549.01
Total liabilities, reserves & surplus	43,375.28	16,568.27	651,732.50	99,035.73
Percentage of net debt to total assets	81.5	60.2	72.2	4.5

"A"—Concluded

Hydro Municipalities as at December 31, 1924

Warkworth P.V.	Wellington 812	Whitby 4,174	East Whitby Township	West Whitby Township	TRENT SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	200.00	3,187.94	.....	.....	189,348.63	4,561,648.92
.....	.....	2,461.74	.....	.....	86,730.66	6,800,238.00
4,837.67	11,535.53	35,590.78	704.50	9,207.42	424,642.10	14,182,190.33
.....	.....	.....	.....	.....	55,359.36	2,873,446.13
292.61	2,944.94	5,692.63	2,459.31	2,329.96	148,511.12	4,456,669.02
733.53	3,196.67	9,439.39	787.22	1,207.75	189,516.21	5,149,629.71
299.74	843.66	3,488.59	.....	721.76	57,049.86	1,134,491.77
.....	.....	.....	.....	.....	25,127.91	728,298.08
609.19	717.28	4,924.99	48.97	33.11	123,538.37	4,168,262.21
.....	.....	.....	.....	.....	73,735.13	4,196,803.45
3,631.52	2,477.92	1,340.13	.....	.....	79,667.20	5,587,420.31
10,404.26	21,916.00	66,126.19	4,000.00	13,500.00	1,453,226.55	53,839,097.93
1,542.86	2,224.43	7,853.81	.....	.....	85,393.68	1,748,912.34
.....	.....	.....	.....	.....	23,000.00	1,329,622.58
1,457.51	633.01	2,840.49	.....	.....	52,516.60	3,898,751.89
.....	15.00	253.02	.....	.....	24,355.18	1,745,628.16
.....	.....	.....	.....	.....	113,793.62	4,520,723.06
.....	.....	.....	.....	.....	.....	5,420,567.58
.....	125.25	.....	.....	.....	5,600.79	250,292.77
13,404.63	24,913.69	77,073.51	4,000.00	13,500.00	1,757,886.42	72,753,596.31
.....	.....	.....	.....	.....	.....	130,674.68
13,404.63	24,913.69	77,073.51	4,000.00	13,500.00	1,757,886.42	72,884,270.99
10,860.86	15,605.37	38,031.94	3,241.39	10,940.09	894,555.76	38,005,162.50
799.14	.....	8,011.35	.....	.....	21,576.93	3,117,224.08
.....	.....	.....	.....	.....	492.61	162,100.71
.....	.....	.....	.....	.....	46,131.80	1,780,564.27
11,660.00	15,605.37	46,043.29	3,241.39	10,940.09	962,757.10	43,065,051.56
.....	.....	.....	.....	.....	.....	5,420,567.58
123.00	2,382.95	2,366.00	.....	.....	103,456.62	8,097,834.68
123.00	2,382.95	2,366.00	.....	.....	103,456.62	13,518,402.26
139.14	1,394.63	18,580.56	758.61	2,559.91	99,553.16	3,530,610.35
.....	.....	.....	.....	.....	113,793.62	4,520,723.06
1,482.49	5,530.74	10,083.66	.....	.....	478,325.92	8,249,483.76
1,621.63	6,925.37	28,664.22	758.61	2,559.91	691,672.70	16,300,817.17
13,404.63	24,913.69	77,073.51	4,000.00	13,500.00	1,757,886.42	72,884,270.99
87.0	62.6	59.7	81.0	81.0	51.6	61.4

STATEMENT

Condensed Operating Reports of Electrical Departments

NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Acton	1,649	13,675 05	4,247.86	440.93	18,363.84	21,730.52	3,366.68
Agincourt	P.V.	1,488.63	366.19	787.83	2,642.65	4,473.19	1,830.54
Ailsa Craig	514	5,533.72	337.82	247.52	6,119.06	7,190.53	1,071.47
Alvinston	657	5,353.00	584.93	2,079.07	8,017.00	10,825.32	2,808.32
Ancaster Twp.	.....	4,816.57	3,466.78	1,542.91	9,826.26	15,485.61	5,659.35
Aylmer	2,222	10,509.61	3,976.65	1,898.98	16,385.24	19,885.84	3,500.60
Ayr	811	2,744.61	1,024.63	955.25	4,724.49	6,491.37	1,766.88
Baden	P.V.	7,599.59	657.63	230.48	8,487.70	9,381.63	893.93
Barton Twp**	.....	9,982.08	5,126.24	4,780.17	19,888.49	22,035.76	2,147.27
Beachville	P.V.	12,564.62	557.36	143.77	13,265.75	16,336.20	3,070.45
Belle River	560	2,242.23	579.45	690.64	3,512.32	6,026.13	2,513 81
Blenheim	1,553	10,688.43	2,295.76	993.58	13,977.77	17,970.67	3,992.90
Blyth*	646	1,444.83	221.95	.....	1,666.78	2,638.97	972.19
Bolton	664	5,223.96	832.28	1,073.86	7,130.10	9,120.34	1,990.24
Bothwell	647	6,801.09	846.15	927.13	8,574.37	11,446.68	2,872.31
Brampton	4,778	36,252.77	8,594.97	3,612.49	48,460.23	53,100.48	4,640.25
Brantford	30,109	179,393.19	38,101.15	37,764.41	255,258.75	282,452.46	27,193.71
Brantford Twp.	.....	9,787.38	5,284.89	4,575.49	19,647.76	25,151.12	5,503.36
Brigden	P.V.	4,367.88	853.28	367.77	5,588.93	6,022.88	433.95
Brussels*	890	2,052.38	190.31	364.29	2,606.98	3,831.97	1,224.99
Burford	P.V.	3,527.86	1,302.52	930.21	5,760 59	7,170.11	1,409.52
Burgessville	P.V.	1,717.48	160.44	292.58	2,170.50	2,717.33	546 83
Caledonia	1,326	4,316.26	1,210.32	483.72	6,010.30	7,616.66	1,606.36
Chatham	15,084	92,412.84	39,330.43	22,073.16	153,816.43	181,952.96	28,136.53
Chippawa	1,078	2,620.22	1,506.33	1,224.39	5,350.94	6,232.61	881.67
Clifford†	467	1,504.49	170.31	6.10	1,680.90	2,429.90	749.00
Clinton	1,922	12,078.77	3,463 29	2,776.42	18,318.48	21,365.82	3,047.34
Comber	P.V.	5,701.02	714.08	626.38	7,041.48	8,006.11	964.63
Courtright	441	1,638.82	267.03	841.84	2,747.69	3,881.36	1,133.67
Dashwood	P.V.	2,764.51	298.24	232.35	3,295.10	3,540.49	245.39
Delaware	P.V.	761.32	165.75	260.46	1,187.53	1,664.18	476.65
Dereham Twp.	.....	3,740.06	1,208.36	4,099.19	9,047.61	9,986.44	938.83
Dorchester	P.V.	2,119.43	449.24	229.93	2,798.60	3,935.98	1,137.38
Drayton	613	3,952.87	462.27	445.08	4,860.22	6,474.22	1,614.00
Dresden	1,426	7,351.49	2,724.44	1,036.25	11,112.18	13,624.17	2,511.99
Drumbo	P.V.	1,471.50	697.13	195.87	2,364.50	2,833.57	469.07
Dublin	P.V.	1,876.11	277.88	580.82	2,734.81	3,114.80	379.99
Dundas	5,070	33,143.31	12,114.81	3,570.57	48,828.69	53,301.19	4,472.50
Dunnville	3,605	13,197.11	4,888.03	4,714.15	22,799.29	28,976.10	6,176.81
Dutton	823	5,619.36	1,338.66	371.26	7,329.28	9,138.44	1,809.16
Elmira	2,392	18,444.31	3,627.69	1,329.84	23,401.84	28,189.00	4,787.16
Elora	1,079	9,696.39	3,263.66	919.00	13,879.05	15,288.57	1,409.52
Embro	475	3,416.10	385.69	630.15	4,431.94	5,515.37	1,083.43
Erieau*	153	428.52	55.59	.....	484.11	945.06	460.95
Essex§	1,591	9,055 42	3,389.53	2,176.60	14,621.55	25,385.98	10,764.43

*4 months' operation only. †5½ months' operation only. **9 months' operation only.
§14 months' operation.

"B"

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horsepower taken in Dec., 1924
				Dom. light	Com'l light	Power	Rural	Total		
$ c.	$ c.	$ c.	$ c.							
.....	819.00	2,547.68	.....	399	69	18	.....	486	29.4	469.9
.....	184.00	1,646.54	.....	99	11	2	2	114	.....	69.7
.....	328.00	743.47	.....	111	31	3	.....	145	28.2	72.9
.....	442.00	2,366.32	.....	140	53	7	.....	200	30.4	105.6
.....	816.00	4,843.35	.....	514	41	4	.....	559	.....	283.5
.....	755.00	2,745.60	.....	499	122	12	.....	633	28.4	370.0
.....	410.00	1,356.88	.....	157	51	3	.....	211	26.0	86.0
.....	325.00	568.93	.....	95	26	4	.....	125	.....	277.2
.....	1,253.00	894.27	.....	1,093	77	10	.....	1,180	.....	588.0
.....	456.00	2,614.45	.....	93	30	2	.....	125	.....	403.9
.....	278.00	2,235.81	.....	118	24	2	.....	144	25.7	71.0
.....	822.00	3,170.90	.....	418	102	18	.....	538	34.6	355.4
.....	.....	972.19	.....	95	34	.....	.....	129	19.9	56.3
.....	520.00	1,470.24	.....	122	39	6	.....	167	25.0	99.7
.....	412.00	2,460.31	.....	169	51	15	.....	235	36.3	171.6
.....	1,272.00	3,368.25	.....	1,148	212	50	.....	1,410	29.5	1,361.2
.....	14,995.03	12,198.68	.....	5,337	615	95	.....	6,047	20.0	8,170.2
.....	1,494.00	4,009.36	.....	546	41	5	26	618	.....	274.2
.....	229.00	204.95	.....	85	38	4	.....	127	.....	56.8
.....	.....	1,224.99	.....	142	56	.....	.....	198	22.2	107.2
.....	296.00	1,113.52	.....	161	38	4	6	209	.....	95.1
.....	113.00	433.83	.....	47	15	1	.....	63	.....	21.3
.....	447.00	1,159.36	.....	113	80	8	.....	201	15.1	201.0
.....	8,812.00	19,324.53	.....	3,517	640	135	.....	4,292	28.4	3,590.2
.....	436.00	445.67	.....	197	31	4	.....	232	21.5	132.7
.....	.....	749.00	.....	53	29	1	.....	83	17.7	34.8
.....	1,165.00	1,882.34	.....	433	132	11	.....	576	29.9	336.4
.....	262.00	702.63	.....	79	47	2	.....	128	.....	167.3
.....	135.00	998.67	.....	69	14	.....	.....	83	18.8	28.4
.....	113.00	132.39	.....	53	25	2	.....	80	.....	44.7
.....	100.00	376.65	.....	43	11	.....	.....	54	.....	14.4
.....	1,354.00	.....	415.17	.....	.....	.....	192	192	.....	100.5
.....	265.00	872.38	.....	124	16	4	.....	144	.....	60.4
.....	297.00	1,317.00	.....	121	43	3	.....	167	27.2	72.3
.....	710.00	1,801.99	.....	304	113	13	.....	430	30.1	246.6
.....	163.00	306.07	.....	77	22	3	.....	102	.....	78.3
.....	163.00	216.99	.....	29	20	4	.....	53	.....	36.4
.....	1,006.00	3,466.50	.....	981	166	48	.....	1,195	23.5	1,362.1
.....	1,875.00	4,301.81	.....	386	170	19	.....	575	15.9	449.0
.....	388.00	1,421.16	.....	182	73	6	2	263	30.9	168.9
.....	1,166.00	3,621.16	.....	438	112	26	.....	576	24.0	630.0
.....	753.00	656.52	.....	265	68	3	.....	336	31.1	297.4
.....	298.00	785.43	.....	86	34	4	1	125	26.3	46.6
.....	.....	460.95	.....	49	2	1	.....	52	33.9	20.5
.....	785.00	9,979.43	.....	316	102	10	.....	428	26.9	179.6

STATEMENT

Condensed Operating Reports of Electrical Departments

NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Etobicoke Twp.	.....	27,028.18	14,604.44	13,916.37	55,548.99	68,770.83	13,221.84
Exeter	1,531	10,785.82	2,901.58	1,292.75	14,980.15	18,934.36	3,954.21
Fergus	1,762	9,544.91	4,147.59	2,763.42	16,455.92	17,535.61	1,079.69
Ford City	5,724	49,160.39	10,170.34	8,419.73	67,750.46	83,421.15	15,670.69
Forest	1,437	7,828.27	3,430.46	2,371.15	13,629.88	16,900.39	3,270.51
Galt	13,222	124,149.81	28,953.31	45,196.40	198,299.52	218,814.85	20,515.33
Georgetown	1,973	21,654.42	4,845.90	1,015.63	27,515.95	32,917.20	5,401.25
Glencoe	840	5,439.38	1,299.13	1,486.85	8,225.36	10,984.97	2,759.61
Goderich	4,220	32,169.06	7,960.90	3,507.71	43,637.67	52,021.43	8,383.76
Grantham Tp. §	.....	2,809.31	1,393.20	3,134.90	7,337.41	7,590.67	253.26
Granton	P.V.	2,738.48	317.93	261.31	3,317.72	3,849.36	531.64
Guelph	18,420	139,891.84	37,357.58	7,472.95	184,722.37	240,358.24	55,635.87
Hagersville	1,155	22,165.84	4,272.43	378.71	26,816.98	27,547.74	730.76
Hamilton	120,234	582,374.88	176,536.60	160,488.88	919,400.36	942,975.08	23,574.72
Harriston	1,318	10,090.67	1,728.92	1,516.53	13,336.12	16,085.36	2,749.24
Harrow†	P.V.	4,193.04	1,303.95	1,411.71	6,908.70	11,951.49	5,042.79
Hensall	705	4,064.97	775.73	783.11	5,623.81	8,331.07	2,707.26
Hespeler	2,907	17,803.24	4,816.22	3,198.20	25,817.66	33,173.79	7,356.13
Highgate	414	2,883.36	584.61	241.41	3,709.38	4,404.04	694.66
Humberstone*	1,428	606.10	422.24	.....	1,028.34	1,231.03	202.69
Ingersoll	5,002	40,064.45	11,560.48	4,190.30	55,815.23	65,861.34	10,046.11
Jarvis§	475	2,842.39	497.28	945.63	4,285.30	5,265.86	980.56
Kingsville†	1,990	13,175.97	5,113.67	3,237.16	21,526.80	34,481.34	12,954.54
Kitchener	23,571	251,260.09	56,808.45	24,206.79	332,275.33	390,813.83	58,538.50
Lambeth	P.V.	2,506.15	288.60	265.15	3,059.90	4,123.93	1,064.03
Leamington†	3,969	15,161.90	8,375.92	4,768.76	28,306.58	54,088.81	25,782.23
Listowel	2,431	16,182.76	4,812.51	3,841.79	24,837.06	28,244.91	3,407.85
London	61,369	456,941.47	159,193.07	114,953.97	731,088.51	790,169.80	59,081.29
London Twp.	.....	2,979.57	655.12	1,046.79	4,681.48	7,526.68	2,845.20
Louth Twp.	.....	.....	240.79	523.33	764.12	888.15	124.03
Lucan	602	5,355.71	1,823.24	409.70	7,588.65	7,504.40	.....
Lynden	P.V.	5,003.30	300.91	301.25	5,605.46	6,567.76	962.30
Markham	967	4,575.96	2,168.43	1,123.52	7,867.91	9,780.56	1,912.65
Merlin	P.V.	4,071.66	564.13	888.80	5,524.59	8,062.68	2,538.09
Merritton	2,591	12,469.19	6,138.34	988.42	19,595.95	21,993.11	2,397.16
Milton	1,900	32,793.41	4,106.53	2,098.68	38,998.62	41,888.33	2,889.71
Milverton	1,056	15,667.44	1,287.67	852.86	17,807.97	19,970.90	2,162.93
Mimico	4,137	28,132.07	10,842.53	4,599.57	43,574.17	46,886.43	3,312.26
Mitchell	1,739	9,978.38	3,457.31	809.45	14,245.14	20,693.50	6,448.36
Moorefield	P.V.	2,601.85	178.39	365.37	3,145.61	3,545.23	399.62
Mt. Brydges	P.V.	1,823.35	366.80	202.84	2,392.99	3,606.74	1,213.75
Newbury	307	1,288.22	322.35	794.18	2,404.75	3,059.73	654.98
New Hamburg	1,390	12,514.20	3,106.25	1,155.07	16,775.52	21,079.85	4,304.33
New Toronto	3,182	73,835.09	10,610.99	335.54	84,781.62	102,042.44	17,260.82
Niagara Falls	15,404	105,008.31	39,303.03	38,060.33	182,371.67	207,697.10	25,325.43

*2 months' operation. † 14 months' operation. § 9 months' operation only.

"B"—Continued

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM—Continued

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Power	Rural	Total		
$ c.	$ c.	$ c.	$ c.							
.....	5,357.00	7,864.84	.....	3,051	199	17	.....	3,267	.....	1,284.1
.....	762.00	3,192.21	.....	358	101	9	.....	468	30.5	283.7
.....	900.00	179.69	.....	412	87	18	.....	517	29.5	362.0
.....	2,335.00	13,335.69	.....	1,670	170	26	.....	1,866	32.6	1,706.5
.....	861.00	2,409.51	.....	400	109	22	.....	531	36.9	169.0
.....	14,544.52	5,970.81	.....	3,289	504	123	.....	3,916	29.6	5,122.6
.....	1,335.00	4,066.25	.....	473	104	26	80	683	34.6	629.2
.....	542.00	2,217.61	.....	193	90	7	.....	290	34.5	132.6
.....	3,286.00	5,097.76	.....	1,139	225	22	42	1,428	33.8	774.8
.....	907.20	.....	653.94	.....	.....	.....	282	282	.....	.....
.....	149.00	382.64	.....	72	24	1	.....	97	.....	37.5
.....	9,799.00	45,836.87	.....	4,332	655	113	.....	5,100	27.6	6,477.2
.....	522.00	208.76	.....	230	89	12	.....	331	28.9	304.9
.....	34,911.27	.....	11,336.55	24,556	2,630	728	.....	27,914	23.2	27,035.0
.....	598.00	2,151.24	.....	265	85	10	.....	360	28.0	209.1
.....	386.00	4,656.79	.....	145	55	8	.....	208	.....	76.4
.....	375.00	2,332.26	.....	149	42	12	.....	203	28.7	83.2
.....	1,494.00	5,862.13	.....	611	107	18	.....	736	25.3	769.9
.....	198.00	496.66	.....	84	34	5	.....	123	29.7	40.2
.....	.....	202.69	.....	.....	.....	.....	.....	.....	.....	169.0
.....	3,008.00	7,038.11	.....	1,261	248	51	.....	1,560	31.1	1,547.9
.....	.....	980.56	.....	51	31	3	.....	85	17.8	152.8
.....	990.00	11,964.54	.....	535	150	11	4	700	35.1	283.9
.....	17,961.99	40,576.51	.....	4,895	739	229	.....	5,863	24.9	10,597.8
.....	204.00	860.03	.....	109	16	2	.....	127	.....	68.9
.....	1,493.00	24,289.23	.....	975	191	21	6	1,193	30.0	392.7
.....	1,455.00	1,952:85	.....	564	140	21	6	731	30.0	536.2
.....	57,277.83	1,803.46	.....	14,957	1,907	497	.....	17,361	28.2	20,551.6
.....	238.00	2,607.20	.....	226	6	1	.....	233	.....	.....
.....	96.13	27.90	.....	.....	.....	.....	56	56	.....	.....
84.25	421.00	.....	505.25	154	39	1	7	201	33.3	176.1
.....	166.00	796.30	.....	72	18	1	.....	91	.....	159.6
.....	398.00	1,514.65	.....	212	48	6	.....	266	27.5	100.5
.....	239.00	2,299.09	.....	86	30	3	.....	119	.....	85.8
.....	685.00	1,712.16	.....	590	55	4	.....	649	25.2	683.6
.....	1,104.00	1,785.71	.....	384	88	24	.....	496	26.0	1,091.7
.....	474.00	1,688.93	.....	190	60	7	.....	257	24.3	476.5
.....	2,783.00	529.26	.....	1,308	112	13	.....	1,433	34.6	1,285.5
.....	1,732.00	4,716.36	.....	393	106	24	.....	523	30.0	306.8
.....	113.00	286.62	.....	44	17	2	.....	63	.....	22.7
.....	179.00	1,034.75	.....	100	25	2	.....	127	.....	44.2
.....	179.00	475.98	.....	48	23	1	.....	72	23.4	28.0
.....	413.00	3,891.33	.....	291	77	14	.....	382	27.5	391.4
.....	1,944.00	15,316.82	.....	886	103	18	.....	1,007	31.6	2,929.0
.....	12,748.00	12,577.43	.....	3,499	552	81	.....	4,132	26.8	6,336.5

STATEMENT

Condensed Operating Reports of Electrical Departments

NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Niagara-on-the-Lake	1,714	5,858.39	4,430.98	1,748.35	12,037.72	12,863.57	825.85
North York Tp.	.....	8,566.43	5,868.54	5,080.93	19,515.90	20,491.48	975.58
Norwich	1,315	11,588.63	9,127.14	493.94	21,209.71	27,056.17	5,846.46
Oil Springs	469	8,783.63	1,511.87	1,383.86	11,679.36	14,174.90	2,495.54
Otterville	P.V.	2,057.76	586.58	220.29	2,864.63	3,994.96	1,130.33
Palmerston	1,820	10,817.05	3,963.09	985.96	15,766.10	17,737.69	1,971.59
Paris	4,345	25,380.55	5,452.95	6,116.71	36,950.21	44,891.10	7,940.89
Parkhill	1,192	4,696.05	779.64	1,094.84	6,570.53	8,089.89	1,519.36
Petrolia	2,836	29,004.63	8,530.40	3,150.80	40,685.83	46,455.16	5,769.33
Plattsville	P.V.	2,499.81	225.56	391.83	3,117.20	3,852.66	735.46
Point Edward	1,116	11,948.24	919.87	635.76	13,503.87	15,130.52	1,626.65
Port Colborne	3,624	15,533.07	6,374.83	5,764.17	27,672.07	29,712.62	2,040.55
Port Credit	1,134	6,988.76	1,723.38	405.25	9,117.39	10,683.82	1,566.43
Port Dalhousie	1,467	6,107.93	2,821.05	1,921.92	10,850.90	15,665.54	4,814.64
Port Dover	1,573	4,285.75	1,182.30	2,797.89	8,265.94	10,893.18	2,627.24
Port Stanley	726	8,875.39	3,331.07	1,135.37	13,341.83	16,686.10	3,344.27
Preston	5,576	57,990.76	12,720.98	10,699.29	81,411.03	96,632.96	15,221.93
Princeton	P.V.	1,714.78	166.18	241.00	2,121.96	3,231.73	1,109.77
Queenston	P.V.	1,578.83	311.31	788.14	2,678.28	3,029.91	351.63
Ridgetown	1,947	10,392.46	3,957.74	1,043.98	15,394.18	17,906.53	2,512.35
Riverside	3,034	12,098.39	6,266.49	3,744.62	22,109.50	28,545.66	6,436.16
Rockwood	P.V.	2,784.39	812.14	.....	3,596.53	4,296.09	699.56
Rodney	711	3,204.43	627.42	256.64	4,088.49	6,668.95	2,580.46
St. Catharines	21,194	106,367.48	47,403.96	16,284.79	170,056.23	188,475.92	18,419.69
St. Clair Beach	131	1,573.03	390.34	595.07	2,558.44	5,020.35	2,461.91
St. George	P.V.	3,171.97	511.50	134.11	3,817.58	5,049.32	1,231.74
St. Jacobs	P.V.	2,175.43	425.93	368.68	2,970.04	3,395.27	425.23
St. Marys	4,017	27,702.09	7,715.64	5,557.47	40,975.20	44,142.51	3,167.31
St. Thomas	17,779	100,920.05	40,686.47	9,180.16	150,786.68	186,982.10	36,195.42
Sandwich*	5,010	36,808.79	9,138.79	5,977.95	51,925.53	55,682.33	3,756.80
Sarnia	15,176	131,788.49	33,776.20	25,551.58	191,116.27	224,023.44	32,907.17
Scarboro Twp.	.....	32,439.49	17,536.70	16,726.02	66,702.21	84,380.58	17,678.37
Seaforth	1,902	13,827.53	3,225.20	933.10	17,985.83	22,228.78	4,242.95
Simcoe	4,049	16,767.24	3,883.07	2,309.14	22,959.45	28,112.77	5,153.32
Springfield	381	2,101.15	588.74	660.00	3,349.89	3,556.97	207.08
Stamford Twp.	.....	13,548.87	10,912.03	8,524.79	32,985.69	41,180.10	8,194.41
Stouffville	1,115	3,764.73	863.78	1,348.61	5,977.12	9,796.66	3,819.54
Stratford	18,224	145,935.95	25,952.78	29,518.50	201,407.23	237,250.49	35,843.26
Strathroy	2,642	18,593.17	5,409.22	2,960.44	26,962.83	31,478.32	4,515.49
Sutton	847	3,049.35	894.05	2,214.19	6,157.59	7,355.47	1,197.88
Tavistock	1,027	8,533.05	1,274.50	141.96	9,949.51	10,381.21	431.70
Tecumseh	1,133	4,124.08	2,964.00	2,359.88	9,447.96	12,285.72	2,837.76
Thamesford	P.V.	4,550.34	406.59	346.37	5,303.30	7,230.69	1,927.39
Thamesville	785	4,058.17	831.39	422.54	5,312.10	8,846.58	3,534.48
Thedford	506	2,954.67	486.78	1,231.94	4,673.39	5,674.05	1,000.66

*9 months' operation only. **Port Stanley total includes summer consumers.

"B"—Continued

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM—Continued

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Power	Rural	Total		
$ c.	$ c.	$ c.	$ c.							
.....	612.00	213.85	.....	354	78	9	6	447	26.0	237.2
.....	920.00	55.58	.....	655	37	11	.....	703	.....	358.8
.....	1,795.00	4,051.46	.....	339	89	8	167	603	†	426.3
.....	493.00	2,002.54	.....	65	29	38	.....	132	28.1	282.8
.....	204.00	926.33	.....	92	26	4	.....	122	.....	61 1
.....	775.00	1,196.59	.....	316	77	7	.....	400	21.9	290.8
.....	3,422.00	4,518.89	.....	961	179	21	7	1,168	26.8	1,061.6
.....	448.00	1,071.36	.....	191	62	3	.....	256	21.4	106.8
.....	1,815.00	3,954.33	.....	581	189	66	.....	836	29.4	873.9
.....	70.00	665.46	.....	80	28	3	.....	111	.....	40 7
.....	495.00	1,131.65	.....	250	39	10	.....	299	26.7	708.9
.....	1,500.00	540.55	.....	852	186	16	.....	1,054	29.0	891.4
.....	688.00	878.43	.....	302	62	7	.....	371	32.7	337.8
.....	515.00	4,299.64	.....	523	30	12	59	624	42.5	236.0
.....	668.00	1,959.24	.....	238	96	6	.....	340	21.6	144.8
.....	883.00	2,461 27	.....	534	57	12	.....	603	**	144.1
.....	4,849.21	10,372.72	.....	1,295	205	47	.....	1,547	27.7	2,437.0
.....	122.00	987.77	.....	82	13	1	.....	96	.....	29.5
.....	194.00	157.63	.....	68	4	1	.....	73	.....	76.4
.....	804.00	1,708.35	.....	447	124	17	.....	588	30.0	374.0
.....	1,181.00	5,255.16	.....	679	27	5	.....	711	23.4	423.6
.....	290.00	409.56	.....	125	19	4	.....	148	.....	69 7
.....	295.00	2,285.46	.....	160	65	4	.....	229	32.2	106.5
.....	10,555.00	7,864.69	.....	4,851	481	106	.....	5,438	25.6	5,860.9
.....	157.00	2,304.91	.....	34	4	2	.....	40	38.1	34.8
.....	205.00	1,026.71	.....	108	31	4	.....	143	.....	87 1
.....	202.00	223.23	.....	67	26	4	4	101	.....	133 0
.....	1,315.00	1,852.31	.....	904	200	44	.....	1,148	28.5	780.0
.....	9,958.00	26,237.42	.....	3,747	603	116	.....	4,466	25.1	4,112.0
.....	.....	3,756.80	.....	1,596	106	17	.....	1,719	34.3	1,733.7
.....	11,174.00	21,733.17	.....	4,176	610	78	.....	4,864	32.0	4,804.7
.....	4,843.00	12,835.37	.....	2,529	190	30	20	2,769	.....	1,480.1
.....	784.00	3,458.95	.....	535	118	12	.....	665	34.9	459.8
.....	1,531.00	3,622.32	.....	454	208	26	.....	688	16.9	745.3
.....	137.00	70.08	.....	74	23	2	.....	99	25.7	29.5
.....	2,439.00	5,755.41	.....	869	15	16	.....	900	.....	898.0
.....	281.00	3,538.54	.....	206	67	5	.....	278	24.9	89.5
.....	14,280.25	21,563.01	.....	4,036	532	174	.....	4,742	26.0	5,086.2
.....	2,009.00	2,506.49	.....	681	165	24	.....	870	32.9	632.7
.....	457.00	740.88	.....	232	44	1	.....	277	32.6	61.0
.....	420.00	11.70	.....	203	66	4	.....	273	26.5	264.7
.....	627.00	2,210.76	.....	331	35	1	.....	367	32.3	109.9
.....	296.00	1,631.39	.....	93	27	5	.....	125	.....	122.6
.....	416.00	3,118.48	.....	193	76	6	.....	275	35.0	114.4
.....	230.00	770.66	.....	104	35	3	.....	142	28.0	48.2

† Norwich included rural consumers of North and South Norwich Townships.

STATEMENT

Condensed Operating Reports of Electrical Departments

NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Thorndale	P.V.	2,622.82	458.45	322.95	3,404.22	3,744.17	339.95
Thorold	5,033	15,013.91	9,293.07	431.41	24,738.39	31,774.62	7,036.23
Tilbury	1,981	10,701.26	1,887.42	746.53	13,335.21	20,487.84	7,152.63
Tillsonburg	3,086	16,706.67	7,252.13	1,179.84	25,138.64	34,950.62	9,811.98
Toronto	529,210	3508543.14	2155209.86	1654866.83	7318619.83	7803850.07	485,230.24
Toronto Twp.	.....	16,377.86	9,158.48	6,852.85	32,389.19	48,810.05	16,420.86
Trafalgar Twp.	.....	3,323.00	2,696.51	1,782.42	7,801.93	10,612.36	2,810.43
Vaughan Twp.	.....	2,675.52	494.62	2,460.75	5,630.89	8,779.83	3,148.94
Walkerville	7,469	136,913.86	38,010.93	20,075.56	195,000.35	224,249.82	29,249.47
Wallaceburg	4,530	37,778.70	10,582.29	3,411.34	51,772.33	67,164.61	15,392.28
Wardsville	195	843.99	239.93	588.96	1,672.88	1,954.82	281.94
Waterdown	811	6,243.77	1,992.39	1,555.39	9,791.55	14,535.00	4,743.45
Waterford	1,065	6,271.29	1,390.34	.....	7,661.63	10,882.44	3,220.81
Waterloo	6,096	54,149.99	14,619.06	8,193.56	76,962.61	93,855.13	16,892.52
Watford	1,059	5,190.01	1,685.47	671.09	7,546.57	10,324.82	2,778.25
Welland	8,636	54,589.68	19,197.66	22,153.37	95,940.71	102,789.22	6,848.51
Wellesley	P.V.	5,691.34	535.91	630.47	6,857.72	8,034.19	1,176.47
West Lorne	812	9,844.83	1,375.79	152.14	11,372.76	12,525.59	1,152.83
Weston	3,569	50,083.42	7,580.58	3,463.80	61,127.80	72,968.52	11,840.72
Wheatley	647	2,747.92	360.47	956.62	4,065.01	6,079.96	2,014.95
Windsor	42,122	450,981.59	167,428.13	93,586.62	711,996.34	827,881.73	115,885.39
Woodbridge	675	5,182.56	1,096.64	304.19	6,583.39	8,696.45	2,113.06
Woodstock	10,196	78,986.59	20,263.72	5,637.95	104,888.26	120,408.05	15,519.79
Wyoming	503	2,314.29	521.85	899.91	3,736.05	4,104.12	368.07
Zurich	P.V.	4,187.81	557.03	125.12	4,869.96	5,535.79	665.83
Total	1191138	8194169.10	3572421.75	2597844.36	14364435.21	15964746.80	1600395.84

GEORGIAN

		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Alliston	1,283	7,366.58	1,892.42	3,123.22	12,382.22	13,325.75	943.53
Arthur	1,062	9,011.68	857.24	2,103.18	11,972.10	13,066.03	1,093.93
Barrie	7,075	35,558.96	9,084.05	3,035.44	47,678.45	59,399.32	11,720.87
Beaverton	975	5,302.08	1,449.72	1,107.24	7,859.04	14,196.19	6,337.15
Beeton	578	6,960.24	575.98	1,114.99	8,651.21	8,844.16	192.95
Bradford	995	6,749.73	771.74	1,772.31	9,293.78	10,776.99	1,483.21
Brechin	P.V.	2,150.55	438.19	378.90	2,967.64	3,677.23	709.59
Cannington	924	3,829.35	1,360.98	1,122.25	6,312.58	8,678.34	2,365.76
Chatsworth	284	1,421.12	193.41	486.61	2,101.14	2,822.28	721.14
Chesley	1,746	12,014.36	1,649.94	2,174.06	15,838.36	20,406.28	4,567.92
Coldwater	595	2,807.55	727.47	461.28	3,996.30	4,994.17	997.87
Collingwood	6,004	43,594.55	7,321.92	3,205.79	54,122.26	60,305.80	6,183.54
Cookstown	P.V.	2,141.37	438.20	1,211.64	3,791.21	3,589.73	.....
Creemore	630	3,712.44	432.23	566.69	4,711.36	5,251.94	540.58
Dundalk	727	3,559.17	653.43	418.35	4,630.95	7,300.21	2,669.26

" B "—Continued

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM—Concluded

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horsepower taken in Dec., 1924
				Dom. light	Com'l light	Power	Rural	Total		
$ c.	$ c.	$ c.	$ c.							
.....	150.00	189.95	.....	65	21	1	.....	87	.....	36.4
.....	2,035.00	5,001.23	.....	1,086	181	8	.....	1,275	25.3	849.8
.....	539.00	6,613.63	.....	257	95	13	.....	365	18.4	349.9
.....	2,030.00	7,781.98	.....	667	197	25	.....	889	28.8	619.9
.....	430991.12	54,239.12	.....	110169	17,925	2,802	.....	130896	24.7	141917.0
.....	4,033.00	12,387.86	.....	1,057	.....	13	.....	1,070	.....	617.9
.....	624.00	2,186.43	.....	146	2	12	.....	160	.....	.....
.....	902.00	2,246.94	.....	64	14	7	14	99	.....	.....
.....	8,357.00	20,892.47	.....	1,885	253	77	.....	2,215	29.6	4,473.7
.....	2,122.00	13,270.28	.....	785	183	25	.....	993	21.9	1,565.7
.....	132.00	149.94	.....	43	15	.....	.....	58	29.7	14.4
.....	1,063.00	3,680.45	.....	175	34	4	92	305	37.6	206.2
.....	477.00	2,743 81	.....	269	63	12	.....	344	32.3	255.5
.....	5,550.00	11,342 52	.....	1,360	193	72	19	1,644	26.9	2,399.5
.....	444.00	2,334.25	.....	229	80	9	.....	318	30.0	128.7
.....	7,194.00	.....	345.49	1,918	280	41	.....	2,239	25.9	2,662.6
.....	268.00	908.47	.....	97	31	5	.....	133	.....	148.8
.....	334.00	818.83	.....	152	54	4	.....	210	25.8	295.0
.....	3,400.00	8,440.72	.....	1,474	157	20	.....	1,651	46.3	2,018.7
.....	.....	2,014.95	.....	120	53	1	.....	174	26.9	59.0
.....	29,016.00	86,869.39	.....	11,263	1,473	335	.....	13,071	31.9	17,153.5
.....	454.00	1,659.06	.....	162	45	6	1	214	31.7	311.7
.....	7,422.00	8,097.79	.....	2,409	428	86	.....	2,923	28.6	3,233.4
.....	259.00	109.07	.....	94	48	2	.....	144	28.6	48.2
.....	219.00	446.83	.....	86	42	4	.....	132	.....	43.8
84.25	825,845.55	787.722.44	13,256.40	264006	41,067	7,362	1,101	313536	.....	332,598.9

BAY SYSTEM

$ c.	$ c.	$ c.	$ c.							
.....	888.00	55.53	.....	301	86	10	.....	397	31.0	132.7
.....	647.00	446.93	.....	144	71	4	.....	219	20.6	160.2
.....	4,063.18	7,657.69	.....	1,645	295	33	.....	1,973	27.8	1,511.7
.....	531.00	5,806.15	.....	227	61	12	94	394	40.4	154.1
.....	395.00	.....	202.05	100	30	4	.....	134	23.1	109.2
.....	548.00	935.21	.....	150	50	3	.....	203	20.4	151.5
.....	90.00	619.59	.....	26	25	2	9	62	.....	18.7
.....	422.00	1,943.76	.....	199	66	10	.....	275	29.8	119.3
.....	162.00	559.14	.....	56	29	1	.....	86	30.3	37.5
.....	810.00	3,757.92	.....	310	94	16	5	425	24.3	345.78
.....	401.00	596.87	.....	111	48	4	.....	163	27.4	95.1
.....	1,187.00	4,996.54	.....	1,271	255	55	2	1,583	26.4	1,333.9
201.48	334.00	.....	535.48	73	36	2	.....	111	.....	41.8
.....	276.00	264.58	.....	131	57	7	.....	195	31.0	70.4
.....	291.00	2,378.26	.....	128	76	4	.....	208	28.6	173.4

STATEMENT

Condensed Operating Reports of Electrical Departments

GEORGIAN BAY

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Durham	1,640	11,302.21	1,826.76	2,363.17	15,492.14	20,162.68	4,670.54
Elmvale	P.V.	5,704.02	962.25	245.67	6,911.94	7,345.86	433.92
Elmwood	P.V.	2,044.37	172.49	628.37	2,845.23	2,935.46	90.23
Flesherton	420	2,472.58	350.32	611.60	3,434.50	3,783.54	349.04
Grand Valley	616	4,914.80	526.12	715.57	6,156.49	7,592.35	1,435.86
Hanover	2,714	35,675.23	5,986.10	6,082.42	47,743.75	54,317.54	6,573.79
Holstein	P.V.	1,429.05	239.50	434.75	2,103.30	1,990.86	.....
Kincardine	2,113	13,157.95	4,276.55	5,646.56	23,081.06	25,532.76	2,451.70
Kirkfield	P.V.	1,217.50	239.45	571.55	2,028.50	2,272.18	243.68
Lucknow	917	6,251.60	554.33	1,663.30	8,469.23	9,965.24	1,496.01
Markdale	865	3,422.02	887.45	674.59	4,984.06	6,191.63	1,207.57
Meaford	2,653	13,330.64	4,293.08	1,523.37	19,147.09	29,756.50	10,609.41
Midland	7,157	69,632.20	12,747.06	5,789.84	88,169.10	102,160.68	13,991.58
Mount Forest	1,734	9,202.86	1,975.77	2,194.06	13,372.69	16,895.53	3,522.84
Neustadt	452	7,104.98	494.69	1,576.17	9,175.84	9,226.01	50.17
Orangeville	2,611	12,498.86	2,536.88	3,101.87	18,137.61	20,314.73	2,177.12
Owen Sound	12,218	43,984.14	20,768.56	6,405.82	71,158.52	94,916.81	23,758.29
Paisley	735	3,688.87	401.75	1,330.58	5,421.20	8,026.84	2,605.64
Penetang'shene	3,945	11,377.57	5,585.66	2,135.56	19,098.79	22,570.34	3,471.55
Port McNicoll	650	1,584.93	388.26	637.87	2,611.06	3,351.60	740.54
Port Perry	1,115	4,950.92	1,103.02	1,004.57	7,058.51	11,789.37	4,730.86
Priceville	P.V.	829.86	85.45	691.84	1,607.15	1,197.02	.....
Ripley	P.V.	3,624.64	367.03	1,065.50	5,057.17	5,419.82	362.65
Shelburne	1,093	7,221.84	995.55	1,605.62	9,823.01	13,059.81	3,236.80
Stayner	1,030	4,367.91	1,031.96	874.19	6,274.06	8,046.21	1,772.15
Sunderland	P.V.	2,783.58	606.52	862.50	4,252.60	5,994.14	1,741.54
Tara	502	4,648.01	628.68	1,489.08	6,765.77	6,609.36	.....
Teeswater	813	6,361.20	626.87	2,357.67	9,345.74	10,218.94	873.20
Thornton	P.V.	1,438.72	87.88	742.94	2,269.54	1,944.50	.....
Tottenham	519	3,942.05	547.29	855.16	5,344.50	6,003.08	658.58
Uxbridge	1,453	5,135.84	1,297.32	800.91	7,234.07	12,558.32	5,324.25
Victoria Harb'r	1,453	2,136.88	533.16	537.22	3,207.26	3,826.46	619.20
Waubaushene	P.V.	1,395.79	387.26	302.70	2,085.75	2,408.83	323.08
Wingham	2,440	16,346.18	5,753.17	6,517.18	28,616.53	33,986.44	5,369.91
Woodville	458	2,356.15	523.57	541.65	3,421.37	5,992.78	2,571.41
Total	80,694	473,715.68	107,634.68	86,863.37	668,213.73	814,998.64	147,990.41

MUSKOKA

		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Gravenhurst	1,609	8,085.86	4,267.81	3,865.51	16,219.18	22,690.46	6,471.28
Huntsville	2,286	24,609.46	3,971.13	1,774.61	30,355.20	31,154.86	799.66
Total	3,895	32,695.32	8,238.94	5,640.12	46,574.38	53,845.32	7,270.94

"B"—Continued

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM—Concluded

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Power	Rural	Total		
$ c.	$ c.	$ c.	$ c.							
.....	729.00	3,941.54	.....	297	92	8	.....	397	26.0	153.6
.....	399.00	34.92	.....	115	56	7	.....	178	.....	206.29
.....	167.00	.....	76.77	41	17	1	.....	59	.....	44.5
.....	239.00	110.04	.....	87	30	1	12	130	30.9	57.1
.....	352.00	1,083.86	.....	120	54	3	.....	177	22.2	95.7
.....	2,186.00	4,387.79	.....	601	106	16	7	730	26.9	709.1
112.44	81.00	.....	193.44	37	23	1	.....	61	.....	16.5
.....	1,230.00	1,221.70	.....	399	103	13	.....	515	24.3	230.5
.....	147.00	96.68	.....	23	18	1	.....	42	.....	34.8
.....	429.00	1,067.01	.....	172	70	2	.....	244	26.6	135.4
.....	370.00	837.57	.....	157	71	9	.....	237	27.5	122.3
.....	811.00	9,798.41	.....	493	121	11	.....	625	23.5	258.7
.....	4,275.00	9,716.58	.....	1,385	211	55	.....	1,651	23.0	3,084.4
.....	844.00	2,678.84	.....	310	132	6	.....	448	26.0	248.0
.....	411.00	.....	360.83	67	30	5	.....	102	22.5	124.6
.....	1,001.00	1,176.12	.....	339	123	19	1	482	18.0	366.7
.....	4,988.17	18,770.12	.....	2,548	493	108	.....	3,149	25.8	1,701.29
.....	273.00	2,332.64	.....	128	40	2	.....	170	23.1	91.0
.....	951.00	2,520.55	.....	466	99	26	.....	591	15.0	450.4
.....	234.00	506.54	.....	120	30	1	.....	151	23.2	73.7
.....	413.00	4,317.86	.....	217	68	8	.....	293	26.3	103.8
410.13	121.00	.....	531.13	25	9	.....	.....	34	.....	12.8
.....	275.00	87.65	.....	74	41	.....	1	116	.....	42.9
.....	609.00	2,627.80	.....	242	89	11	.....	342	31.3	276.1
.....	504.00	1,268.15	.....	204	56	10	.....	270	26.2	138.48
.....	191.00	1,550.54	.....	96	37	2	.....	135	.....	57.7
156.41	370.00	.....	526.41	94	37	4	.....	135	26.8	57.6
.....	427.00	446.20	.....	148	59	3	.....	210	25.8	137.67
325.04	201.00	.....	526.04	39	11	.....	.....	50	.....	18.5
.....	281.00	377.58	.....	117	49	4	.....	170	32.8	49.0
.....	336.00	4,988.25	.....	207	77	14	1	299	20.6	127.5
.....	266.00	353.20	.....	145	38	.....	.....	183	12.6	63.0
.....	148.00	175.08	.....	98	19	4	.....	121	.....	40.2
.....	1,908.00	3,461.91	.....	425	151	23	.....	599	24.6	286.8
.....	130.00	2,441.41	.....	90	27	3	.....	120	26.2	45.6
1,205.50	37,342.35	112,394.71	2,952.15	14,998	3,956	549	131	19,634	.....	14,117.51

SYSTEM

$ c.	$ c.	$ c.	$ c.							
.....	1,493.00	4,978.28	.....	351	63	12	.....	426	26.4	446.94
.....	661.00	138.66	.....	440	100	8	.....	548	23.9	1,033.5
.....	2,154.00	5,116.94	.....	791	163	20	.....	974	.....	1,480.44

STATEMENT

Condensed Operating Reports of Electrical Departments

ST. LAWRENCE

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Alexandria	2,255	14,118.64	2,813.91	4,795.13	21,727.68	24,423.06	2,695.38
Apple Hill	P.V.	1,583.21	275.89	557.04	2,416.14	2,497.36	81.22
Brockville	9,384	47,703.21	19,749.68	12,100.30	79,553.19	115,104.03	35,550.84
Chesterville	865	10,435.33	1,463.15	516.08	12,414.56	16,685.26	4,270.70
Lancaster	601	4,137.90	357.49	1,170.23	5,665.62	4,394.16	.....
Martintown	P.V.	1,045.52	100.84	467.39	1,613.75	1,600.68	.....
Maxville	763	4,417.34	876.33	1,534.97	6,828.64	7,730.39	901.75
Prescott	2,597	9,879.91	6,592.79	1,248.06	17,720.76	20,684.88	2,964.12
Williamsburg	P.V.	1,376.11	188.91	214.16	1,779.18	2,055.80	276.62
Winchester	1,090	5,464.75	1,834.13	616.50	7,915.38	9,756.73	1,841.35
Total	19,055	100,161.92	34,253.12	23,219.86	157,634.90	204,932.35	48,581.98

RIDEAU

Carleton Place	4,254	33,618.93	7,217.69	5,023.13	45,859.75	51,578.56	5,718.81
Kemptville	1,175	5,632.29	2,805.95	1,556.35	9,994.59	14,672.43	4,677.84
Lanark	591	2,311.46	257.90	628.40	3,197.76	3,821.27	623.51
Perth	3,710	20,525.18	5,770.64	6,169.45	32,465.27	38,428.20	5,962.93
Smiths Falls	6,592	35,964.33	9,640.45	16,408.93	62,013.71	70,940.78	8,927.07
Total	16,322	98,052.19	25,692.63	29,786.26	153,531.08	179,441.24	25,910.16

THUNDER BAY

Port Arthur	15,681	383,659.32	65,483.95	27,368.06	476,511.33	584,195.66	107,684.33

OTTAWA

Ottawa	116,205	151,396.61	140,097.26	62,331.18	353,825.05	446,104.92	92,279.87

" B "—Continued

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Power	Rural	Total		
$ c.	$ c.	$ c.	$ c.							
.....	806.00	1,889.38	.....	228	98	15	.....	341	15.1	214.36
.....	107.00	.....	25.78	31	18	1	.....	50	.....	28.8
.....	3,341.00	32,209.84	.....	2,087	394	68	.....	2,549	27.1	1,390.9
.....	385.75	3,884.95	.....	179	62	4	1	246	28.8	179.6
1,271.46	190.00	.....	1,461.46	67	27	1	.....	95	15.8	32.23
13.07	87.00	.....	100.07	25	13	.....	3	41	.....	17.4
.....	356.00	545.75	.....	112	43	2	.....	157	20.6	53.6
.....	710.00	2,254.12	.....	502	144	22	.....	668	25.7	394.0
.....	87.00	189.62	.....	45	16	1	.....	62	.....	27.0
.....	402.00	1,439.35	.....	243	57	3	.....	303	27.8	146.9
1,284.53	6,471.75	42,413.01	1,587.31	3,519	872	117	4	4,512	.....	2,484.79

SYSTEM

.....	1,480.00	4,238.81	.....	796	174	16	.....	986	23.1	781.88
.....	517.00	4,160.84	.....	228	68	6	1	303	25.7	187.6
.....	146.00	477.51	.....	82	27	2	.....	111	18.7	39.5
.....	1,948.00	4,014.93	.....	714	183	19	.....	916	24.7	558.41
.....	4,118.00	4,809.07	.....	1,370	247	40	23	1,680	25.4	886.0
.....	8,209.00	17,701.16	.....	3,190	699	83	24	3,996	.....	2,453.39

SYSTEM

.....	18,745.57	88,938.76	.....	3,389	663	80	.....	4,132	26.3	23,739.0

SYSTEM

.....	49,890.00	42,389.87	.....	11,022	1,440	243	.....	12,705	10.9	14,708.0

STATEMENT

Condensed Operating Reports of Electrical Departments

TRENT

Municipality	Population	Power purchased	Operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Bloomfield	625	3,055.07	460.46	788.09	4,303.62	6,410.38	2,106.76
Havelock	1,255	4,125.96	1,209.07	2,793.06	8,128.09	10,134.68	2,006.59
Kingston	21,975	75,518.62	69,714.55	22,373.06	167,606.23	215,337.51	47,731.28
Lakefield	1,250	4,709.30	1,470.70	2,253.93	8,433.93	11,337.51	2,903.58
Marmora	794	1,803.54	585.55	1,546.98	3,936.07	5,690.31	1,754.24
Norwood	765	2,539.35	1,026.34	2,625.92	6,191.61	7,860.76	1,669.15
Omemee	450	5,722.46	775.93	1,046.25	7,544 64	7,158.20	.....
Peterboro	21,605	104,407.46	45,692.58	29,396.02	179,496.06	207,648.48	28,152.42
Picton	3,135	14,540.07	6,989.21	359.01	21,888.29	32,836.99	10,948.70
Warkworth	P.V.	1,370.27	248.01	959.34	2,577.62	4,234.79	1,657.17
Wellington	812	3,179.69	832.95	1,365.46	5,378.10	8,702.70	3,324.60
Whitby	4,174	14,967.47	5,756.50	4,229.80	24,953.77	33,106.19	8,152.42
Total	57,340	235,939.26	134,761.85	69,736.92	440,438.03	550,458.50	110,406.91

ALL SYSTEMS

System							
Niagara	1191138	8,194,169.10	3,572,421.75	2,597,844.36	14,364,435.21	15,964,746.80	1,600,395.84
Georgian Bay	80,694	473,715.68	107,634.68	86,863.37	668,213.73	814,998.64	147,990.41
Muskoka	3,895	32,695.32	8,238.94	5,640.12	46,574.38	53,845.32	7,270.94
St. Lawrence	19,055	100,161.92	34,253.12	23,219.86	157,634.90	204,932.35	48,581.98
Rideau	16,322	98,052.19	25,692.63	29,786.26	153,531.08	179,441.24	25,910.16
Thunder Bay	15,681	383,659.32	65,483.95	27,368.06	476,511.33	584,195.66	107,684.33
Ottawa	116,205	151,396.61	140,097.26	62,331.18	353,825.05	446,104.92	92,279.87
Trent	57,340	235,939.26	134,761.85	69,736.92	440,438.03	550,458.50	110,406.91
Grand Total	1500330	9,669,789.40	4,088,584.18	2,902,790.13	16,661,163.71	18,798,723.43	2,140,520.44

NOTE.—Police Villages taken as 500 population and Townships as 2,000 population.

"B"—Continued

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Power	Rural	Total		
$ c.	$ c.	$ c.	$ c.							
.....	261.00	1,845.76	.....	120	19	6	6	151	24.2	65.7
.....	573.00	1,433.59	.....	261	51	2	.....	314	25.0	219.3
.....	9,560.00	38,171.28	.....	4,226	854	138	.....	5,218	23.7	3,189.6
.....	604.00	2,299.58	.....	214	71	3	.....	288	23.0	118.6
.....	363.00	1,391.24	.....	131	44	4	.....	179	22.5	63.2
.....	693.00	976.15	.....	187	70	2	.....	259	33.9	136.0
386.44	370.00	.....	756.44	110	33	7	.....	150	33.3	150.5
.....	9,788.68	18,363.74	.....	5,266	766	134	.....	6,166	28.5	5,415.5
.....	1,000.62	9,948.08	.....	816	187	41	.....	1,044	33.3	455.7
.....	123.00	1,534.17	.....	58	27	.....	.....	85	.....	39.5
.....	436.10	2,888.50	.....	202	48	7	10	267	32.9	84.7
.....	1,219.00	6,933.42	.....	660	127	11	.....	798	19.0	761.4
386.44	24,991.40	85,785.51	756.44	12,251	2,297	355	16	14,919	.....	10,699.7

—SUMMARY

84.25	825,845.55	787,722.44	13,256.40	264,006	41,067	7,362	1,101	313,536	.....	332,598.9
1,205.50	37,342.35	112,394.71	2,952.15	14,998	3,956	549	131	19,634	.....	14,117.51
.....	2,154.00	5,116.94	.....	791	163	20	.....	974	.....	1,480.44
1,284.53	6,471.75	42,413.01	1,587.31	3,519	872	117	4	4,512	.....	2,484.79
.....	8,209.00	17,701.16	.....	3,190	699	83	24	3,996	.....	2,453.39
.....	18,745.57	88,938.76	.....	3,389	663	80	.....	4,132	.....	23,739.0
.....	49,890.00	42,389.87	.....	11,022	1,440	243	.....	12,705	.....	14,708.0
386.44	24,991.40	85,785.51	756.44	12,251	2,297	355	16	14,919	.....	10,699.7
2,960.72	973,649.62	1,182,462.40	18,552.30	313,166	51,157	8,809	1,276	374,408	.....	402,281.7

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM

Municipality	Acton	Agincourt P.V.	Ailsa Craig	Alvinston	Ancaster Township
Population	1,649		514	657	
	$ c.	$ c.	$ c.	$ c.	$ c.
EARNINGS					
Domestic service	6,488.68	2,329.95	1,528.12	2,937.84	12,764.29
Commercial light	2,649.50	394.30	810.37	2,136.23	1,340.19
Commercial power	9,740.55	926.19	4,125.76	3,563.72	541.13
Municipal power	731.79	.....	.....	467.53	.....
Street lighting	2,120.00	690.00	639.00	1,720.00	840.00
Rural service	.....	.....	87.28	.....	.....
Miscellaneous	.....	132.75	.....	.....	.....
Total earnings	21,730.52	4,473.19	7,190.53	10,825.32	15,485.61
EXPENSES					
Power purchased	13,675.05	1,488.63	5,533.72	5,353.00	4,816.57
Substation operation	.....	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	2,171.94	54.85	166.04	112.80	1,803.00
Line transformer maintenance	.....	.....	.....	.....	.....
Meter maintenance	10.15	.....	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	260.70	50.83	22.57	103.48	196.47
Promotion of business	361.23	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	1,233.10	260.51	149.21	368.65	1,467.31
Undistributed expenses	210.74	.....	.....	.....	.....
Interest	21.26	466.48	75.66	1,147.02	1,271.43
Sinking fund and principal payments on debentures	419.67	321.35	171.86	932.05	271.48
Total expenses	18,363.84	2,642.65	6,119.06	8,017.00	9,826.26
Gross surplus	3,366.68	1,830.54	1,071.47	2,808.32	5,659.35
Gross loss	.....	.....	.....	.....	.....
Depreciation	819.00	184.00	328.00	442.00	816.00
Net surplus	2,547.68	1,646.54	743.47	2,366.32	4,843.35
Net loss	.....	.....	.....	.....	.....

"C"

Hydro Municipalities for Year Ended December 31, 1924

Aylmer 2,222	Ayr 811	Baden P.V.	†Barton Township	Beachville P.V.	Belle River 560	Blenheim 1,553	*Blyth 646
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,505.68	2,467.40	1,463.32	15,522.23	1,072.83	3,826.75	4,537.83	1,028.20
4,420 06	1,173.64	517.92	1,425.99	584.43	1,010.86	3,221.33	506.84
3,542.81	1,758.33	6,851.39	3,820.54	13,811.28	108.52	7,729.51	181.43
1,764.49	.....	.....	.....	.....	.....	.....	.....
2,604.00	1,092.00	549.00	1,267.00	495.00	1,080.00	2,482.00	922.50
.....	.....	.....	.....	.....	.....	.....	.....
48.80	.....	.....	.....	372.66	.....	.....	.....
19,885.84	6,491.37	9,381.63	22,035.76	16,336.20	6,026.13	17,970.67	2,638.97
10,509.61	2,744.61	7,599.59	9,982.08	12,564.62	2,242.23	10,688.43	1,444.83
1,049.45	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
1,858.14	775.07	81.25	742.74	185.70	226.43	1,134.40	.....
.....	.....	.....	38.00	.....	.....	.....	.....
.....	.....	.....	44.80	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
124.38	71.95	101.90	96.49	53.49	44.90	284.39	12.00
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
944.68	177.61	463.23	4,051.96	318.17	308.12	876.97	209.95
.....	.....	11.25	152.25	.....	.....	.....	.....
1,108.42	211.31	95.33	2,718.62	.....	459.57	711.34	.....
790.56	743.94	135.15	2,061.55	143.77	231.07	282.24	.....
16,385.24	4,724.49	8,487.70	19,888.49	13,265.75	3,512.32	13,977.77	1,666.78
3,500.60	1,766.88	893.93	2,147.27	3,070.45	2,513.81	3,992.90	972.19
.....	.....	.....	.....	.....	.....	.....	.....
755.00	410.00	325.00	1,253.00	456.00	278.00	822.00	.....
2,745.60	1,356.88	568.93	894.27	2,614.45	2,235.81	3,170.90	972.19
.....	.....	.....	.....	.....	.....	.....	.....

†Nine months' operation only. *Four months' operation only.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Bolton	Bothwell	Brampton	Brantford	Brantford Township
Population	664	647	4,778	30,109	
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,520.15	2,527.96	19,981.44	101,846.38	13,311.64
Commercial light	1,215.44	1,229.04	8,331.81	25,042.59	3,061.06
Commercial power	4,452.75	6,411.39	18,167.86	85,709.45	5,248.17
Municipal power	.....	146.63	2,233.88	29,956.64	.....
Street lighting	932.00	1,105.00	4,286.00	34,705.62	3,497.57
Rural service	.....	.....	.....	5,191.78	.....
Miscellaneous	.....	26.66	99.49	.....	32.68
Total earnings	9,120.34	11,446.68	53,100.48	282,452.46	25,151.12
EXPENSES					
Power purchased	5,223.96	6,801.09	36,252.77	179,393.19	9,787.38
Substation operation	.....	.....	.....	4,724.41	.....
Substation maintenance	.....	.....	1,429.04	629.36	.....
Distribution system, operation and maintenance	144.38	90.10	1,342.90	2,521.18	755.61
Line transformer maintenance	.....	.....	73.65	1,285.81	.....
Meter maintenance	.....	.....	81.70	1,871.94	.....
Consumers' premises expenses	.....	.....	.....	451.39	.....
Street lighting, operation and maintenance	54.50	113.53	467.93	5,825.69	412.37
Promotion of business	.....	.....	.....	1,827.35	.....
Billing and collecting	.....	.....	2,360.74	6,621.82	.....
General office, salaries and expenses	633.40	642.52	2,607.86	7,977.90	3,558.62
Undistributed expenses	.....	.....	231.15	4,364.30	558.29
Interest	733.43	826.33	844.81	21,043.41	2,387.39
Sinking fund and principal payments on debentures	340.43	100.80	2,767.68	16,721.00	2,188.10
Total expenses	7,130.10	8,574.37	48,460.23	255,258.75	19,647.76
Gross surplus	1,990.24	2,872.31	4,640.25	27,193.71	5,503.36
Gross loss	.....	.....	.....	.....	.....
Depreciation	520.00	412.00	1,272.00	14,995.03	1,494.00
Net surplus	1,470.24	2,460.31	3,368.25	12,198.68	4,009.36
Net loss	.....	.....	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Brigden P.V.	*Brussels 890	Burford P.V.	Burgessville P.V.	Caledonia 1,326	Chatham 15,084	Chippawa 1,078	†Clifford 467
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,880.91	1,739.64	3,868.60	917.77	1,644.39	55,578.51	3,814.34	930.03
1,330.11	1,005.46	1,396.71	292.51	2,226.66	36,375.01	752.04	748.84
1,836.86	206.87	881.39	1,177.05	2,658.41	68,542.69	766.23	60.40
.....	.....	.....	.....	.....	3,477.08	.....	.....
925.00	880.00	960.00	330.00	1,087.20	16,850.29	900.00	690.63
.....	.....	.....	.....	.....	.....	.....	.....
50.00	.....	63.41	.....	.....	1,129.38	.....	.....
6,022.88	3,831.97	7,170.11	2,717.33	7,616.66	181,952.96	6,232.61	2,429.90
4,367.88	2,052.38	3,527.86	1,717.48	4,316.26	92,412.84	2,620.22	1,504.49
.....	.....	.....	.....	.....	7,492.84	.....	.....
.....	.....	.....	.....	.....	271.54	.....	.....
440.19	.....	728.20	71.11	468.23	3,342.48	352.54	.....
.....	.....	.....	.....	.....	357.14	.....	.....
.....	.....	.....	.....	.....	630.59	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
56.35	.....	49.38	.....	58.39	3,680.43	191.72	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	6,760.20	.....	.....
356.74	190.31	524.94	89.33	683.70	12,507.25	962.07	170.31
.....	.....	.....	.....	.....	4,287.96	.....	.....
200.89	364.29	392.16	140.84	341.33	15,519.90	800.26	6.10
166.88	.....	538.05	151.74	142.39	6,553.26	424.13	.....
5,588.93	2,606.98	5,760.59	2,170.50	6,010.30	153,816.43	5,350.94	1,680.90
433.95	1,224.99	1,409.52	546.83	1,606.36	28,136.53	881.67	749.00
.....	.....	.....	.....	.....	.....	.....	.....
229.00	.....	296.00	113.00	447.00	8,812.00	436.00	.....
204.95	1,224.99	1,113.52	433.83	1,159.36	19,324.53	445.67	749.00
.....	.....	.....	.....	.....	.....	.....	.....

*Four months' operation only. †Five and one-half months' operation only.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Clinton	Comber P.V.	Courtright	Dashwood P.V.	Delaware P.V.
Population	1,922		441		
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	7,232.03	1,789.74	1,993.89	1,014.24	822.45
Commercial light	4,032.42	1,634.10	687.47	719.78	463.73
Commercial power	7,298.43	3,923.90	.....	1,191.47	.....
Municipal power	845.18	.....	.....	.....	.....
Street lighting	1,883.00	658.37	1,200.00	615.00	378.00
Rural service	.....	.....	.....	.....	.....
Miscellaneous	74.76	.....	.....	.....	.....
Total earnings	21,365.82	8,006.11	3,881.36	3,540.49	1,664.18
EXPENSES					
Power purchased	12,078.77	5,701.02	1,638.82	2,764.51	761.32
Substation operation	.....	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	399.92	207.06	64.59	7.22	62.97
Line transformer maintenance	.....	.....	.....	.....	.....
Meter maintenance	.....	.....	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	390.21	67.91	14.65	46.58	51.00
Promotion of business	.....	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	2,673.16	439.11	187.79	244.44	51.78
Undistributed expenses	.....	.....	.....	.....	.....
Interest	1,803 93	262.94	490.57	164.07	167.05
Sinking fund and principal payments on debentures	972 49	363.44	351.27	68.28	93.41
Total expenses	18,318.48	7,041.48	2,747.69	3,295.10	1,187.53
Gross surplus	3,047.34	964.63	1,133.67	245.39	476.65
Gross loss	.....	.....	.....	.....	.....
Depreciation	1,165.00	262.00	135.00	113.00	100.00
Net surplus	1,882.34	702.63	998.67	132.39	376.65
Net loss	.....	.....	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Dereham Twp.	Dorchester P.V.	Drayton 613	Dresden 1,426	Drumbo P.V.	Dublin P.V.	Dundas 5,070	Dunnville 3,605
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
.....	1,873.31	2,277.46	3,742.14	1,193.10	610.96	17,287.47	5,856.39
.....	434.44	1,515.92	2,874.70	608.83	647.68	7,793.49	7,700.15
.....	1,212.23	1,660.84	4,593.43	513.64	1,136.16	23,435.90	7,826.71
.....	.....	.....	510.33	.....	.....	417.76	2,747.10
.....	416.00	1,020.00	1,722.00	518.00	720.00	3,828.99	4,653.03
9,986.44	.....	.....	.....	.....	.....	512.28	.....
.....	.....	.....	181.57	.....	.....	25.30	192.72
9,986.44	3,935.98	6,474.22	13,624.17	2,833.57	3,114.80	53,301.19	28,976.10
3,740.06	2,119.43	3,952.87	7,351.49	1,471.50	1,876.11	33,143.31	13,197.11
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	248.31	.....
822.29	121.61	51 15	1,836.53	303.28	6.89	2,733.96	1,569.52
.....	.....	.....	.....	.....	.....	402.77	.....
.....	.....	.....	.....	.....	.....	562.25	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	42.50	65.33	204.28	32.77	62.50	336.61	224.80
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	2,032.01	.....
386.07	285.13	345.79	683.63	361.08	208.49	3,459.96	3,093.71
.....	.....	.....	.....	.....	.....	2,338.94	.....
3,317.56	134.33	275.82	167.96	90.80	310.82	2,251.77	3,506.54
781.63	95.60	169.26	868.29	105.07	270.00	1,318.80	1,207.61
9,047.61	2,798.60	4,860.22	11,112.18	2,364.50	2,734.81	48,828.69	22,799.29
938.83	1,137.38	1,614.00	2,511.99	469.07	379.99	4,472.50	6,176.81
.....	.....	.....	.....	.....	.....	.....	.....
1,354.00	265.00	297.00	710.00	163.00	163.00	1,006.00	1,875.00
.....	872.38	1,317.00	1,801.99	306.07	216.99	3,466.50	4,301.81
415.17	.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Dutton	Elmira	Elora	Embro	*Erieau
Population	823	2,392	1,079	475	153
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,520.42	8,369.49	3,871.46	1,725.67	570.58
Commercial light	1,981.25	3,953.15	2,924.40	1,096.89	35.06
Commercial power	3,489.52	13,149.08	7,123.10	1,923.51	153.88
Municipal power	.....	620.28	.....	.....	.....
Street lighting	1,019.04	2,017.00	1,302.00	769.30	185.54
Rural service	71.30	.....	.....	.....	.....
Miscellaneous	56.91	80.00	67.61	.....	.....
Total earnings	9,138.44	28,189.00	15,288.57	5,515.37	945.06
EXPENSES					
Power purchased	5,619.36	18,444.31	9,696.39	3,416.10	428.52
Substation operation	.....	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	124.04	1,592.47	2,030.57	74.57	0.96
Line transformer maintenance	.....	.....	.....	.....	.....
Meter maintenance	.....	.....	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	165.11	79.93	172.00	97.06	14.95
Promotion of business	.....	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	1,049.51	1,850.99	1,061.09	214.06	39.68
Undistributed expenses	.....	104.30	.....	.....	.....
Interest	169.66	876.79	452.54	372.75	.....
Sinking fund and principal payments on debentures	201.60	453.05	466.46	257.40	.....
Total expenses	7,329.28	23,401.84	13,879.05	4,431.94	484.11
Gross surplus	1,809.16	4,787.16	1,409.52	1,083.43	460.95
Gross loss	.....	.....	.....	.....	.....
Depreciation	388.00	1,166.00	753.00	298.00	.....
Net surplus	1,421.16	3,621.16	656.52	785.43	460.95
Net loss	.....	.....	.....	.....	.....

* Four months' operation only.

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

†Essex 1,591	Etobicoke Township	Exeter 1,531	Fergus 1,762	Ford City 5,724	Forest 1,437	Galt 13,222	George-town 1,973
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,750.25	47,492.23	6,249.74	5,889.68	35,396.27	6,317.65	84,140.65	6,837.95
7,609.52	6,896.50	2,906.20	2,977.59	10,570.87	3,299.32	29,210.79	3,941.28
6,047.57	5,596.82	5,778.57	5,999.08	35,605.01	4,623.96	73,178.03	16,991.72
.....	770.93	640.38	670.13	.....	84.49	7,957.63	750.68
1,868.80	7,971.05	2,075.57	1,999.13	1,849.00	2,443.93	20,727.75	2,136.00
.....	.....	.....	.....	.....	.....	.....	2,259.57
109.84	43.30	1,283.90	.....	.....	131.04	3,600.00	.....
25,385.98	68,770.83	18,934.36	17,535.61	83,421.15	16,900.39	218,814.85	32,917.20
9,055.42	27,028.18	10,785.82	9,544.91	49,160.39	7,828.27	124,149.81	21,654.42
.....	.....	.....	.....	.....	.....	5,169.91	.....
.....	.....	.....	.....	.....	.....	789.91	.....
556.15	5,064.20	171.05	2,330.11	4,861.41	2,254.28	3,861.27	2,113.63
342.04	2.23	.....	240.85	.....	.....	67.70	.....
49.27	174.64	.....	12.73	.....	.....	185.82	.....
.....	.....	.....	.....	.....	.....	.....	.....
222.16	314.68	259.42	126.97	515.18	154.90	3,715.98	227.20
.....	.....	.....	.....	.....	.....	2,072.15	.....
291.01	3,249.99	.....	.....	.....	.....	2,651.85	.....
1,756.77	3,857.88	2,471.11	1,102.82	4,793.75	1,021.28	6,928.08	2,359.51
172.13	1,940.82	.....	334.11	.....	.....	3,510.64	145.56
2,176.60	10,173.30	673.62	1,343.63	5,858.68	769.45	29,430.87	562.58
.....	3,743.07	619.13	1,419.79	2,561.05	1,601.70	15,765.53	453.05
14,621.55	55,548.99	14,980.15	16,455.92	67,750.46	13,629.88	198,299.52	27,515.95
10,764.43	13,221.84	3,954.21	1,079.69	15,670.69	3,270.51	20,515.33	5,401.25
.....	.....	.....	.....	.....	.....	.....	.....
785.00	5,357.00	762.00	900.00	2,335.00	861.00	14,544.52	1,335.00
9,979.43	7,864.84	3,192.21	179.69	13,335.69	2,409.51	5,970.81	4,066.25
.....	.....	.....	.....	.....	.....	.....	.....

† Fourteen months' operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Glencoe	Goderich	Grantham Township §	Granton P.V.	Guelph
Population	840	4,220			18,420
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	3,033.99	16,425.61	.....	1,179.58	67,385.61
Commercial light	2,165.83	8,030.31	.....	525.30	34,181.62
Commercial power	3,606.15	18,446.68	.....	1,706.48	99,232.57
Municipal power	.....	4,602.54	.....	.....	22,581.83
Street lighting	2,091.00	4,223.00	.....	416.00	10,950.60
Rural service	.....	.....	7,590.67	.....	.....
Miscellaneous	88.00	293.29	.....	22.00	6,026.01
Total earnings	10,984.97	52,021.43	7,590.67	3,849.36	240,358.24
EXPENSES					
Power purchased	5,439.38	32,169.06	2,809.31	2,738.48	139,891.84
Substation operation	.....	3,467.04	.....	.....	3,611.55
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	545.13	1,216.02	742.92	195.57	6,097.14
Line transformer maintenance	.....	22.93	.....	.....	2,466.67
Meter maintenance	.....	25.02	.....	.....	2,192.57
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	58.78	212.58	.....	5.50	4,047.48
Promotion of business	.....	.....	.....	.....	3,299.87
Billing and collecting	.....	746.99	.....	.....	5,250.09
General office, salaries and expenses	695.22	1,623.26	650.28	116.86	4,202.29
Undistributed expenses	.....	647.06	.....	.....	6,189.92
Interest	880.67	1,916.79	2,731.43	190.75	3,063.77
Sinking fund and principal payments on debentures	606.18	1,590.92	403.47	70.56	4,409.18
Total expenses	8,225.36	43,637.67	7,337.41	3,317.72	184,722.37
Gross surplus	2,759.61	8,383.76	253.26	531.64	55,635.87
Gross loss	.....	.....	.....	.....	.....
Depreciation	542.00	3,286.00	907.20	149.00	9,799.00
Net surplus	2,217.61	5,097.76	.....	382.64	45,836.87
Net loss	.....	.....	653.94	.....	.....

§ Nine months' operation only.

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Hagersville 1,155	Hamilton 120,234	Harriston 1,318	*Harrow P.V.	Hensall 705	Hespeler 2,907	Highgate 414	†Humberstone 1,428
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,079.32	389,531.34	3,944.02	4,267.96	3,033.50	9,866.44	1,236.81	585.09
2,728.18	111,271.35	2,869.88	3,542.79	1,489.20	3,650.37	915.45	359.97
20,923.64	266,032.24	7,372.59	3,426.58	2,833.37	16,716.28	1,710.31	155.47
.....	71,724.43	595.54	.....	.....	958.97	.....	.....
800.00	84,774.84	1,303.33	655.47	975.00	1,971.33	540.00	130.50
.....	.....	.....	.....	.....	.....	.....	.....
16.60	19,640.88	.....	58.69	.....	10.40	1.47	.....
27,547.74	942,975.08	16,085.36	11,951.49	8,331.07	33,173.79	4,404.04	1,231.03
22,165.84	582,374.88	10,090.67	4,193.04	4,064.97	17,803.24	2,883.36	606.10
.....	29,472.77	.....	.....	.....	639.32	.....	.....
.....	593.92	.....	.....	.....	.....	.....	.....
3,016.51	22,046.76	870.93	296.57	103.46	2,033.84	226.53	292.00
.....	2,745.79	.....	83.64	.....	.....	.....	.....
.....	13,099.96	.....	55.07	.....	7.50	.....	.....
.....	6,619.84	.....	.....	.....	.....	.....	.....
113.72	10,101.29	115.93	75.74	112.70	30.75	73.90	23.80
.....	7,192.93	.....	.....	.....	.....	.....	.....
.....	32,326.81	.....	.....	.....	.....	.....	.....
1,097.95	37,259.76	709.98	792.93	559.57	1,545.61	284.18	106.44
44.25	15,076.77	32.08	.....	.....	559.20	.....	.....
137.78	97,610.40	673.46	1,411.71	513.60	1,467.88	135.52	.....
240.93	62,878.48	843.07	.....	269.51	1,730.32	105.89	.....
26,816.98	919,400.36	13,336.12	6,908.70	5,623.81	25,817.66	3,709.38	1,028.34
730.76	23,574.72	2,749.24	5,042.79	2,707.26	7,356.13	694.66	202.69
.....	.....	.....	.....	.....	.....	.....	.....
522.00	34,911.27	598.00	386.00	375.00	1,494.00	198.00	.....
208.76	.....	2,151.24	4,656.79	2,332.26	5,862.13	496.66	202.69
.....	11,336.55	.....	.....	.....	.....	.....	.....

*Fourteen months' operation. †Two months' operation only.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Ingersoll	†Jarvis	*Kingsville	Kitchener	Lambeth P.V.
Population	5,002	475	1,990	23,571	
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	23,120.72	728.35	14,471.65	99,430.08	2,629.81
Commercial light	10,499.86	837.73	10,878.69	52,442.55	603.59
Commercial power	24,924.38	3,003.12	6,031.06	181,645.64	331.53
Municipal power	1,661.00	.....	.....	26,477.20	.....
Street lighting	5,023.42	696.66	2,878.88	25,632.47	559.00
Rural service	.....	.....	.....	.....	.....
Miscellaneous	631.96	.....	221.06	5,185.89	.....
Total earnings	65,861.34	5,265.86	34,481.34	390,813.83	4,123.93
EXPENSES					
Power purchased	40,064.45	2,842.39	13,175.97	251,260.09	2,506.15
Substation operation	1,297.91	.....	.....	7,993.43	.....
Substation maintenance	.....	.....	.....	1,162.81	.....
Distribution system, operation and maintenance	1,525.22	34.00	2,256.50	16,457.00	81.63
Line transformer maintenance	146.50	.....	66.64	575.52	.....
Meter maintenance	36.63	.....	55.67	1,861.94	.....
Consumers' premises expenses	.....	.....	.....	55.75	.....
Street lighting, operation and maintenance	1,126.17	27.20	224.36	7,062.09	17.96
Promotion of business	2,077.67	.....	.....	346.17	.....
Billing and collecting	1,771.01	.....	908.18	6,620.75	.....
General office, salaries and expenses	1,968.69	436.08	1,145.06	8,369.81	189.01
Undistributed expenses	1,610.68	.....	457.26	6,303.18	.....
Interest	2,512.95	644.50	3,237.16	11,389.97	184.51
Sinking fund and principal payments on debentures	1,677.35	301.13	.....	12,816.82	80.64
Total expenses	55,815.23	4,285.30	21,526.80	332,275.33	3,059.90
Gross surplus	10,046.11	980.56	12,954.54	58,538.50	1,064.03
Gross loss	.....	.....	.....	.....	.....
Depreciation	3,008.00	.....	990.00	17,961.99	204.00
Net surplus	7,038.11	980.56	11,964.54	40,576.51	860.03
Net loss	.....	.....	.....	.....	.....

* Fourteen months' operation.
† Nine months' operation only.

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Leamington* 3,969	Listowel 2,431	London 61,369	London Twp.	Louth Twp.	Lucan 602	Lynden P.V.	Markham 967
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
24,190.62	8,894.23	278,264.74	6,520.43	.....	3,075.29	1,392.88	3,515.80
17,782.24	4,719.75	115,523.61	748.14	.....	997.64	496.05	1,631.67
7,666.61	9,549.15	307,441.27	258.11	.....	2,344.64	4,282.78	2,649.80
.....	1,100.00	27,992.57	.....	.....	.....	.....	198.29
4,294.03	3,675.00	39,270.32	.....	.....	1,005.00	396.05	1,785.00
.....	306.78	3,941.62	.....	888.15	47.65	.....	.....
155.31	.....	17,735.67	.....	.....	34.18	.....	.....
54,088.81	28,244.91	790,169.80	7,526.68	888.15	7,504.40	6,567.76	9,780.56
15,161.90	16,182.76	456,941.47	2,979.57	.....	5,355.71	5,003.30	4,575.96
.....	.....	14,637.10	.....	.....	.....	.....	.....
.....	.....	14,484.65	.....	.....	.....	.....	.....
2,700.21	468.74	13,780.59	104.94	132.79	983.08	123.38	1,311.40
228.15	.....	4,079.13	.....	.....	.....	.....	.....
125.37	87.72	13,985.64	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
418.99	455.00	5,336.60	.....	.....	54.50	35.43	82.63
.....	.....	6,007.39	.....	.....	.....	.....	.....
497.16	.....	20,449.49	.....	.....	.....	.....	.....
3,653.19	3,801.05	38,177.22	550.18	108.00	785.66	142.10	774.40
752.85	.....	28,255.26	.....	.....	.....	.....	.....
4,768.76	1,557.12	68,661.76	616.50	460.99	.....	206.03	433.61
.....	2,284.67	46,292.21	430.29	62.34	409.70	95.22	689.91
28,306.58	24,837.06	731,088.51	4,681.48	764.12	7,588.65	5,605.46	7,867.91
25,782.23	3,407.85	59,081.29	2,845.20	124.03	.....	962.30	1,912.65
.....	.....	.....	.....	.....	84.25	.....	.....
1,493.00	1,455.00	57,277.83	238.00	96.13	421.00	166.00	398.00
24,289.23	1,952.85	1,803.46	2,607.20	27.90	.....	796.30	1,514.65
.....	.....	.....	.....	.....	505.25	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Merlin P.V.	Merritton	Milton	Milverton	Mimico
Population		2,591	1,900	1,056	4,137
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	1,846.42	7,907.99	7,524.78	3,106.06	28,280.20
Commercial light	1,178.25	1,667.74	4,132.06	2,394.26	5,442.68
Commercial power	4,301.85	9,594.88	27,868.66	13,118.83	4,785.29
Municipal power	.....	.....	.....	297.67	4,422.35
Street lighting	736.16	2,822.50	1,900.84	1,054.08	3,955.91
Rural service	.....	.....	.....	.....	.....
Miscellaneous	.....	.....	461.99	.....	.....
Total earnings	8,062.68	21,993.11	41,888.33	19,970.90	46,886.43
EXPENSES					
Power purchased	4,071.66	12,469.19	32,793.41	15,667.44	28,132.07
Substation operation	.....	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	119.72	4,006.78	1,782.43	418.82	6,517.10
Line transformer maintenance	.....	.....	197.81	.....	.....
Meter maintenance	.....	.....	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	32.40	353.13	61.12	109.80	500.50
Promotion of business	.....	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	412.01	1,628.43	1,858.30	759.05	3,510.83
Undistributed expenses	.....	150.00	206.87	.....	314.10
Interest	491.16	359.70	1,064.18	434.66	3,111.12
Sinking fund and principal payments on debentures	397.64	628.72	1,034.50	418.20	1,488.45
Total expenses	5,524.59	19,595.95	38,998.62	17,807.97	43,574.17
Gross surplus	2,538.09	2,397.16	2,889.71	2,162.93	3,312.26
Gross loss	.....	.....	.....	.....	.....
Depreciation	239.00	685.00	1,104.00	474.00	2,783.00
Net surplus	2,299.09	1,712.16	1,785.71	1,688.93	529.26
Net loss	.....	.....	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Mitchell 1,739	Moorefield P.V.	Mount Brydges P.V.	Newbury 307	New Hamburg 1,390	New Toronto 3,182	Niagara Falls 15,404	Niagara on-the-Lake 1,714
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,988.37	837.08	1,645.47	728.47	4,806.71	15,544.79	93,779.71	5,712.98
3,372.66	683.24	537.95	583.12	2,325.57	6,349.78	36,889.06	2,387.66
6,133.81	1,549.91	935.82	920.14	10,101.95	63,764.14	43,760.54	816.99
800.00	.....	.....	.....	.....	11,777.77	11,580.74	1,693.57
2,191.79	475.00	487.50	828.00	2,640.00	4,493.75	20,144.44	2,252.37
.....	.....	.....	.....	.....	.....	.....	.....
1,206.87	.....	.....	.....	1,205.62	112.26	1,542.61	.....
20,693.50	3,545.23	3,606.74	3,059.73	21,079.85	102,042.44	207,697.10	12,863.57
9,978.38	2,601.85	1,823.35	1,288.22	12,514.20	73,835.09	105,008.31	5,858.39
.....	.....	.....	.....	.....	.....	6,412.81	.....
277.43	.....	.....	.....	.....	.....	.....	.....
646.20	38.84	78.74	21.80	1,720.10	5,407.75	6,024.96	2,628.58
.....	.....	.....	.....	.....	.....	641.68	.....
.....	.....	.....	.....	.....	.....	3,730.73	.....
.....	.....	.....	.....	.....	.....	.....	.....
378.10	78.54	38.28	75.75	117.43	519.00	4,245.93	381.95
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	4,976.00	.....
2,141.58	61.01	249.78	224.80	1,268.72	4,684.24	6,690.63	1,420.45
14.00	.....	.....	.....	.....	.....	6,580.29	.....
143.87	189.63	108.50	494.18	644.21	139 39	19,456.12	553.78
665.58	175.74	94.34	300.00	510.86	196.15	18,604.21	1,194.57
14,245.14	3,145.61	2,392.99	2,404.75	16,775.52	84,781.62	182,371.67	12,037.72
6,448.36	399.62	1,213.75	654.98	4,304.33	17,260.82	25,325.43	825.85
.....	.....	.....	.....	.....	.....	.....	.....
1,732.00	113.00	179.00	179.00	413.00	1,944.00	12,748.00	612.00
4,716.36	286.62	1,034.75	475.98	3,891.33	15,316.82	12,577.43	213.85
.....	.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	North York Township	Norwich	Oil Springs	Otterville P.V.	Palmerston
Population	*	1,315	469		1,820
EARNINGS					
	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	14,797.22	5,346.88	947.40	1,505.25	5,407.81
Commercial light	1,798.39	2,739.80	731.22	744.13	3,408.02
Commercial power	1,720.29	2,619.81	11,511.05	1,368.58	5,831.72
Municipal power	2,040.43	1,184.08	.....	.....	1,020.14
Street lighting	109.62	2,290.75	688.00	377.00	2,070.00
Rural service	.....	12,874.85	.....	.....	.....
Miscellaneous	25.53	.....	297.23	.....	.....
Total earnings	20,491.48	27,056.17	14,174.90	3,994.96	17,737.69
EXPENSES					
Power purchased	8,566.43	11,588.63	8,783.63	2,057.76	10,817.05
Substation operation	.....	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	2,985.01	2,251.60	1,096.56	145.39	492.23
Line transformer maintenance	.....	22.70	.....	.....	.....
Meter maintenance	.....	126.72	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	10.65	229.90	12.00	29.65	261.39
Promotion of business	.....	.....	.....	.....	1,419.89
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	2,285.92	1,301.86	403.31	411.54	1,618.18
Undistributed expenses	586.96	5,194.36	.....	.....	171.40
Interest	3,073.38	129.52	716.08	25.31	86.41
Sinking fund and principal payments on debentures	2,007.55	364.42	667.78	194.98	899.55
Total expenses	19,515.90	21,209.71	11,679.36	2,864.63	15,766.10
Gross surplus	975.58	5,846.46	2,495.54	1,130.33	1,971.59
Gross loss	.....	.....	.....	.....	.....
Depreciation	920.00	1,795.00	493.00	204.00	775.00
Net surplus	55.58	4,051.46	2,002.54	926.33	1,196.59
Net loss	.....	.....	.....	.....	.....

* Thirteen months' operation.

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Paris 4,345	Parkhill 1,192	Petrolia 2,836	Plattsville P.V.	Point Edward 1,116	Port Colborne 3,624	Port Credit 1,134	Port Dalhousie 1,467
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
16,280.06	3,187.40	7,856.97	1,707.29	3,705.98	13,171.21	5,385.95	8,464.36
5,994.11	1,872.92	5,374.97	875.11	1,286.84	6,053.01	2,126.92	1,553.27
14,465.45	1,115.90	22,927.97	682.26	9,367.70	5,280.10	1,201.68	2,654.96
1,240.00	532.67	6,618.85	.....	.....	925.09	748.27	.....
6,041.25	1,381.00	3,256.26	588.00	770.00	3,345.92	1,221.00	1,560.00
.....	.....	.....	.....	.....	.....	.....	1,432.95
870.23	.....	420.14	.....	.....	937.29	.....	.....
44,891.10	8,089.89	46,455.16	3,852.66	15,130.52	29,712.62	10,683.82	15,665.54
25,380.55	4,696.05	29,004.63	2,499.81	11,948.24	15,533.07	6,988.76	6,107.93
274.06	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
2,614.48	279.24	2,033.71	59.00	160.48	1,658.41	700.46	1,607.20
.31	.....	422.37	.....	.....	.....	.....	.....
13.70	.....	115.27	.....	28.99	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
618.70	68.33	432.97	19.80	52.70	278.16	59.02	129.65
.....	.....	.....	.....	.....	.....	.....	.....
402.35	.....	.....	.....	.....	.....	.....	.....
859.71	432.07	4,315.14	146.76	677.70	3,833.17	963.90	1,084.20
669.64	.....	1,210.94	.....	.....	605.09	.....	.....
1,986.09	658.28	1,796.11	269.54	332.49	3,574.98	202.50	1,051.33
4,130.62	436.56	1,354.69	122.29	303.27	2,189.19	202.75	870.59
36,950.21	6,570.53	40,685.83	3,117.20	13,503.87	27,672.07	9,117.39	10,850.90
7,940.89	1,519.36	5,769.33	735.46	1,626.65	2,040.55	1,566.43	4,814.64
.....	.....	.....	.....	.....	.....	.....	.....
3,422.00	448.00	1,815.00	70.00	495.00	1,500.00	688.00	515.00
4,518.89	1,071.36	3,954.33	665.46	1,131.65	540.55	878.43	4,299.64
.....	.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Port Dover	Port Stanley	Preston	Princeton P.V.	Queenston P.V.
Population	1,573	726	5,576		
EARNINGS					
	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	4,539.61	7,608.09	28,958.51	2,093.16	1,662.87
Commercial light	2,740.98	2,057.60	14,326.44	272.61	131.05
Commercial power	862.05	4,178.26	46,581.73	445.96	675.01
Municipal power	515.54	615.00	1,152.49	.....	.....
Street lighting	2,235.00	2,145.00	5,450.35	420.00	494.76
Rural service	.....	.....	.....	.....	.....
Miscellaneous	.....	82.15	163.44	.....	66.22
Total earnings	10,893.18	16,686.10	96,632.96	3,231.73	3,029.91
EXPENSES					
Power purchased	4,285.75	8,875.39	57,990.76	1,714.78	1,578.83
Substation operation	.....	.....	3,839.60	.....	.....
Substation maintenance	.....	.....	1,238.79	.....	.....
Distribution system, operation and maintenance	297.31	1,005.67	2,492.84	112.84	.....
Line transformer maintenance	.....	.....	19.35	.....	.....
Meter maintenance	.....	.....	77.74	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	295.75	524.20	857.25	17.23	44.09
Promotion of business	.....	.....	.....	.....	.....
Billing and collecting	.....	.....	1,011.18	.....	.....
General office, salaries and expenses	589.24	1,801.20	1,353.38	36.11	267.22
Undistributed expenses	.....	.....	1,830.85	.....	.....
Interest	1,496.63	605.69	4,637.65	158.11	543.77
Sinking fund and principal payments on debentures	1,301.26	529.68	6,061.64	82.89	244.37
Total expenses	8,265.94	13,341.83	81,411.03	2,121.96	2,678.28
Gross surplus	2,627.24	3,344.27	15,221.93	1,109.77	351.63
Gross loss	.....	.....	.....	.....	.....
Depreciation	668.00	883.00	4,849.21	122.00	194.00
Net surplus	1,959.24	2,461.27	10,372.72	987.77	157.63
Net loss	.....	.....	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Ridgetown 1,947	Riverside 3,034	Rockwood P.V.	Rodney 711	St. Catharines 21,194	St. Clair Beach 131	St. George P.V.	St. Jacobs P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,625.27	21,863.35	1,724.71	1,971.73	89,008.31	1,419.21	1,584.38	1,560.32
3,392.08	2,097.49	457.78	1,321.17	17,302.65	3,302.33	586.63	741.47
5,530.10	2,964.82	1,253.55	2,313.33	59,232.46	298.81	2,427.70	613.48
838.20	.....	.....	.....	.....	.....	.....	.....
2,427.96	1,620.00	804.25	1,062.72	21,998.78	.....	315.00	480.00
.....	.....	.....	.....	.....	.....	.....	.....
92.92	.....	55.80	.....	933.72	.....	135.61	.....
17,906.53	28,545.66	4,296.09	6,668.95	188,475.92	5,020.35	5,049.32	3,395.27
10,392.46	12,098.39	2,784.39	3,204.43	106,367.48	1,573.03	3,171.97	2,175.43
.....	.....	.....	.....	4,683.03	.....	.....	.....
.....	.....	.....	.....	1,063.65	.....	.....	.....
1,503.51	2,970.25	224.78	209.35	13,091.72	228.64	37.22	74.56
.....	.....	.....	.....	969.06	.....	.....	.....
65.65	.....	.....	.....	1,218.29	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
58.29	774.14	114.88	91.81	4,109.12	.....	35.40	26.86
.....	.....	.....	.....	795.00	.....	.....	.....
.....	.....	.....	.....	5,359.79	.....	.....	.....
1,681.73	2,522.10	472.48	326.26	11,007.41	161.70	438.88	324.51
648.56	.....	.....	.....	5,106.89	.....	.....	.....
.....	2,510.10	.....	85.95	9,417.48	413.54	.....	131.39
1,043.98	1,234.52	.....	170.69	6,867.31	181.53	134.11	237.29
15,394.18	22,109.50	3,596.53	4,088.49	170,056.23	2,558.44	3,817.58	2,970.04
2,512.35	6,436.16	699.56	2,580.46	18,419.69	2,461.91	1,231.74	425.23
.....	.....	.....	.....	.....	.....	.....	.....
804.00	1,181.00	290.00	295.00	10,555.00	157.00	205.00	202.00
1,708.35	5,255.16	409.56	2,285.46	7,864.69	2,304.91	1,026.74	223.23
.....	.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	St. Marys	St. Thomas	Sandwich*	Sarnia
Population	4,017	17,779	5,010	15,176
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	16,448.62	63,645.65	39,260.85	74,902.85
Commercial light	6,403.59	31,726.62	6,909.99	34,052.52
Commercial power	15,106.56	62,022.66	5,254.85	99,656.44
Municipal power	1,728.09	11,860.73	.....	.....
Street lighting	4,085.00	14,687.30	4,256.64	12,141.99
Rural service	.....	.....	.....	.....
Miscellaneous	370.65	3,039.14	.....	3,269.64
Total earnings	44,142.51	186,982.10	55,682.33	224,023.44
EXPENSES				
Power purchased	27,702.09	100,920.05	36,808.79	131,788.49
Substation operation	1,371.21	6,046.39	.....	3,890.23
Substation maintenance	10.35	479.43	.....	693.34
Distribution system, operation and maintenance	1,601.16	6,500.00	1,218.86	3,361.24
Line transformer maintenance	73.49	21.15	126.67	878.07
Meter maintenance	246.59	676.20	263.19	1,940.60
Consumers' premises expenses	.....	330.64	.....	.....
Street lighting, operation and maintenance	583.21	2,906.81	1,139.85	3,066.06
Promotion of business	.....	1,375.22	.....	.....
Billing and collecting	879.47	5,148.98	2,002.69	4,245.30
General office, salaries and expenses	2,010.77	6,705.28	3,204.38	7,201.93
Undistributed expenses	939.39	10,496.37	1,183.15	8,499.43
Interest	2,450.94	3,735.81	3,651.68	14,431.50
Sinking fund and principal payments on debentures	3,106.53	5,444.35	2,326.27	11,120.08
Total expenses	40,975.20	150,786.68	51,925.53	191,116.27
Gross surplus	3,167.31	36,195.42	3,756.80	32,907.17
Gross loss	.....	.....	.....	.....
Depreciation	1,315.00	9,958.00	.....	11,174.00
Net surplus	1,852.31	26,237.42	3,756.80	21,733.17
Net loss	.....	.....	.....	.....

* Nine months' operation only.

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Scarboro' Township	Seaforth 1,902	Simcoe 4,049	Springfield 381	Stamford Township	Stouffville 1,115	Stratford 18,224
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
50,986.90	8,574.95	6,668.31	1,398.55	21,474.11	4,022.42	127,044.76
9,124.97	4,448.60	8,184.06	724.34	1,548.12	1,996.13	44,026.63
12,492.41	7,191.93	9,004.61	754.08	10,736.23	1,639.11	36,946.19
5,238.84	249.00	1,146.79	.....	.....	.....	7,938.80
6,537.46	1,722.00	3,109.00	680.00	4,434.57	2,139.00	18,643.56
.....	.....	.....	.....	.....	.....	2,650.55
.....	42.30	.....	.....	2,987.07	.....	.....
84,380.58	22,228.78	28,112.77	3,556.97	41,180.10	9,796.66	237,250.49
32,439.49	13,827.53	16,767.24	2,101.15	13,548.87	3,764.73	145,935.95
.....	.....	.....	.....	.....	.....	4,829.43
.....	.....	.....	.....	.....	.....	.....
8,662.69	1,712.11	2,191.84	255.42	4,396.10	410.63	6,562.59
691.40	.....	15.80	.....	.....	.....	279.64
1,391.50	.....	84.18	.....	.....	.....	1,305.56
.....	.....	.....	.....	.....	.....	.....
418.76	397.89	453.84	29.50	300.51	51.92	3,127.41
.....	.....	.....	.....	.....	.....	.....
2,361.03	.....	734.72	.....	.....	.....	3,964.11
2,326.03	1,115.20	310.94	303.82	5,086.08	401.23	2,084.57
1,685.29	.....	91.75	.....	1,129.34	.....	3,799.47
10,942.07	487.35	1,415.05	100.64	5,225.29	722.31	20,396.14
5,783.95	445.75	894.09	559.36	3,299.50	626.30	9,122.36
66,702.21	17,985.83	22,959.45	3,349.89	32,985.69	5,977.12	201,407.23
17,678.37	4,242.95	5,153.32	207.08	8,194.41	3,819.54	35,843.26
.....	.....	.....	.....	.....	.....	.....
4,843.00	784.00	1,531.00	137.00	2,439.00	281.00	14,280.25
12,835.37	3,458.95	3,622.32	70.08	5,755.41	3,538.54	21,563.01
.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Strathroy	Sutton	Tavistock	Tecumseh
Population	2,642	847	1,027	1,133
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	10,299.07	3,621.98	3,996.35	9,257.88
Commercial light	5,404.58	940.37	1,663.40	2,476.90
Commercial power	11,032.83	424.12	2,916.92	213.94
Municipal power	1,162.17	.....	446.62	.....
Street lighting	3,261.00	2,369.00	1,357.92	337.00
Rural service	.....	.....	.....	.....
Miscellaneous	318.67	.....	.....	.....
Total earnings	31,478.32	7,355.47	10,381.21	12,285.72
EXPENSES				
Power purchased	18,593.17	3,049.35	8,533.05	4,124.08
Substation operation	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....
Distribution system, operation and maintenance	1,071.23	369.13	468.59	1,370.62
Line transformer maintenance	.....	.....	.....	.....
Meter maintenance	.....	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....
Street lighting, operation and maintenance	578.61	84.50	74.90	105.88
Promotion of business	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....
General office, salaries and expenses	3,759.38	440.42	731.01	1,487.50
Undistributed expenses	.....	.....	.....	.....
Interest	1,115.52	1,382.49	14.89	1,616.29
Sinking fund and principal payments on debentures	1,844.92	831.70	127.07	743.59
Total expenses	26,962.83	6,157.59	9,949.51	9,447.96
Gross surplus	4,515.49	1,197.88	431.70	2,837.76
Gross loss	.....	.....	.....	.....
Depreciation	2,009.00	457.00	420.00	627.00
Net surplus	2,506.49	740.88	11.70	2,210.76
Net loss	.....	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Thamesford P.V.	Thamesville 785	Thedford 506	Thorndale P.V.	Thorold 5,033	Tilbury 1,981	Tillsonburg 3,086
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,474.07	3,314.33	2,184.91	1,239.34	15,833.36	4,705.82	9,705.98
1,175.72	2,179.65	1,408.02	737.35	5,702.15	3,960.70	7,375.54
4,069.90	2,582.60	781.12	1,319.48	3,512.53	10,367.07	13,519.41
.....	.....	.....	.....	3,535.58	425.40	.....
510.00	770.00	1,300.00	448.00	3,191.00	1,028.85	3,265.62
.....	.....	.....	.....	.....	.....	62.71
1.00	.....	.....	.....	.....	.....	1,021.36
7,230.69	8,846.58	5,674.05	3,744.17	31,774.62	20,487.84	34,950.62
4,550.34	4,058.17	2,954.67	2,622.82	15,013.91	10,701.26	16,706.67
.....	.....	.....	.....	3,593.90	.....	1,353.26
.....	.....	.....	.....	.....	.....	.....
99.48	255.09	222.54	221.41	2,511.91	37.28	763.44
.....	.....	.....	.....	.....	.....	281.21
.....	.....	.....	.....	.....	.....	137.91
.....	.....	.....	.....	.....	.....	.....
46.31	48.88	53.18	82.57	676.89	30.82	500.53
.....	.....	.....	.....	.....	.....	24.35
.....	.....	.....	.....	.....	.....	838.64
260.80	527.42	211.06	154.47	2,204.37	1,819.32	2,934.02
.....	.....	.....	.....	306.00	.....	418.77
78.14	52.37	727.96	173.75	29.31	346.69	174.51
268.23	370.17	503.98	149.20	402.10	399.84	1,005.33
5,303.30	5,312.10	4,673.39	3,404.22	24,738.39	13,335.21	25,138.64
1,927.39	3,534.48	1,000.66	339.95	7,036.23	7,152.63	9,811.98
.....	.....	.....	.....	.....	.....	.....
296.00	416.00	230.00	150.00	2,035.00	539.00	2,030.00
1,631.39	3,118.48	770.66	189.95	5,001.23	6,613.63	7,781.98
.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Toronto	Toronto Township	Trafalgar Township	Vaughan Township
Population,	529,210			
EARNINGS				
	$ c.	$ c.	$ c.	$ c.
Domestic service	2,113,870.87	38,350.74	7,855.14	2,058.79
Commercial light	1,896,832.09	.....	1,000.49	545.06
Commercial power	2,430,998.68	7,644.31	1,399.10	4,211.09
Municipal power	817,152.27	.....	.....	.....
Street lighting	447,069.08	2,815.00	.....	238.00
Rural service	.....	.....	.....	1,726.89
Miscellaneous	97,927.08	.....	357.63	.....
Total earnings	7,803,850.07	48,810.05	10,612.36	8,779.83
EXPENSES				
Power purchased	3,508,543.14	16,377.86	3,323.00	2,675.52
Substation operation	205,288.48	.....	.....	.....
Substation maintenance	151,893.88	.....	.....	.....
Distribution system, operation and maintenance	229,700.17	4,717.60	1,108.82	202.14
Line transformer maintenance	53,531.21	.....	.....	.....
Meter maintenance	64,913.92	.....	.....	.....
Consumers' premises expenses	219,736.17	.....	.....	.....
Street lighting, operation and maintenance	105,426.12	57.94	.....	40.77
Promotion of business	160,825.16	.....	.....	.....
Billing and collecting	282,381.39	.....	.....	.....
General office, salaries and expenses	401,385.61	4,036.94	1,587.69	251.71
Undistributed expenses	280,127.75	346.00	.....	.....
Interest	1,027,967.24	4,286.42	1,782.42	2,178.44
Sinking fund and principal payments on debentures	626,899.59	2,566.43	.....	282.31
Total expenses	7,318,619.83	32,389.19	7,801.93	5,630.89
Gross surplus	485,230.24	16,420.86	2,810.43	3,148.94
Gross loss	.....	.....	.....	.....
Depreciation	430,991.12	4,033.00	624.00	902.00
Net surplus	54,239.12	12,387.86	2,186.43	2,246.94
Net loss	.....	.....	.....	.....

" C "—Continued

Hydro Municipalities for Year Ended December 31, 1924

Walkerville	Wallaceburg	Wardsville	Waterdown	Waterford	Waterloo	Watford
7,469	4,530	195	811	1,065	6,096	1,059
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
64,338.96	12,262.84	887.66	2,927.21	3,871.88	28,786.94	4,158.80
22,903.80	6,178.47	447.16	722.74	1,011.78	11,647.41	2,960.33
114,908.43	44,381.35	.....	1,437.47	4,455.51	41,420.25	2,103.19
.....	1,043.92	.....	.....	.....	4,027.98	.....
7,533.38	2,872.92	620.00	940.00	1,213.40	6,894.27	1,102.50
.....	.....	.....	8,507.58	174.06	.....	.....
14,565.25	425.11	.....	.....	155.81	1,078.28	.....
224,249.82	67,164.61	1,954.82	14,535.00	10,882.44	93,855.13	10,324.82
136,913.86	37,778.70	843.99	6,243.77	6,271.29	54,149.99	5,190.01
7,277.22	.....	.....	.....	.....	2,641.09	.....
386.05	243.77	.....	.....	.....	100.90	.....
3,030.78	2,487.85	30.23	966.00	549.85	2,509.25	868.43
2,317.74	254.03	.....	.....	.....	52.09	.....
2,770.76	189.72	.....	.....	.....	404.51	.....
.....	.....	.....	.....	.....	.....	.....
4,206.66	760.93	25.37	150.98	109.74	1,062.84	133.95
.....	.....	.....	.....	.....	345.71	.....
.....	.....	.....	.....	.....	1,851.55	.....
10,582.17	5,428.43	184.33	875.41	730.75	5,377.73	683.09
7,439.55	1,217.56	.....	.....	.....	273.39	.....
10,613.00	2,402.81	344.60	1,037.76	.....	5,036.70	230.95
9,462.56	1,008.53	244.36	517.63	.....	3,156.86	440.14
195,000.35	51,772.33	1,672.88	9,791.55	7,661.63	76,962.61	7,546.57
29,249.47	15,392.28	281.94	3,743.45	3,220.81	16,892.52	2,778.25
.....	.....	.....	.....	.....	.....	.....
8,357.00	2,122.00	132.00	1,063.00	477.00	5,550.00	444.00
20,892.47	13,270.28	149.94	3,680.45	2,743.81	11,342.52	2,334.25
.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Welland	Wellesley P.V.	West Lorne	Weston
Population	8,636		812	3,569
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	28,780.82	1,445.36	1,903.28	19,971.05
Commercial light	8,282.89	836.40	1,636.27	3,566.53
Commercial power	47,940.35	4,867.43	7,900.64	38,057.47
Municipal power	.....	.....	.....	2,295.15
Street lighting	7,490.97	885.00	1,034.50	8,820.15
Rural service	.....	.....	.....	.....
Miscellaneous	10,294.19	.....	50.90	258.17
Total earnings	102,789.22	8,034.19	12,525.59	72,968.52
EXPENSES				
Power purchased	54,589.68	5,691.34	9,844.83	50,083.42
Substation operation	2,498.65	.....	.....	.....
Substation maintenance	44.82	.....	.....	.....
Distribution system, operation and maintenance	4,037.66	40.72	223.82	3,983.12
Line transformer maintenance	166.54	.....	.....	15.00
Meter maintenance	468.94	.....	.....	25.58
Consumers' premises expenses	.....	.....	.....	.....
Street lighting, operation and maintenance	530.64	53.20	268.02	518.20
Promotion of business	229.14	.....	.....	.....
Billing and collecting	2,947.55	.....	.....	.....
General office, salaries and expenses	6,099.31	441.99	883.95	2,787.20
Undistributed expenses	2,174.41	.....	.....	251.48
Interest	16,961.98	323.91	.....	2,261.39
Sinking fund and principal payments on debentures	5,191.39	306.56	152.14	1,202.41
Total expenses	95,940.71	6,857.72	11,372.76	61,127.80
Gross surplus	6,848.51	1,176.47	1,152.83	11,840.72
Gross loss	.....	.....	.....	.....
Depreciation	7,194.00	268.00	334.00	3,400.00
Net surplus	.....	908.47	818.83	8,440.72
Net loss	345.49	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

*Wheatley 647	Windsor 42,122	Woodbridge 675	Woodstock 10,196	Wyoming 503	Zurich P.V.	NIAGARA SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,085.13	323,851.35	2,127.17	47,519.61	1,656.80	1,470.91	5,134,998.67
2,078.71	141,192.25	897.02	22,608.94	1,084.82	1,034.53	3,059,476.85
691.12	180,122.27	4,456.96	39,794.13	362.50	2,295.35	5,164,333.82
.....	109,119.25	219.58	2,788.22	.....	.....	1,231,066.55
1,225.00	55,909.51	876.00	6,812.67	1,000.00	735.00	1,095,170.43
.....	11,692.46	119.72	.....	.....	.....	70,125.29
.....	5,994.64	.....	884.48	.....	.....	209,575.19
6,079.96	827,881.73	8,696.45	120,408.05	4,104.12	5,535.79	15,964,746.80
2,747.92	450,981.59	5,182.56	78,986.59	2,314.29	4,187.81	8,194,169.10
.....	33,892.09	.....	2,734.26	.....	.....	370,181.44
.....	10,835.69	.....	277.74	.....	.....	187,155.38
28.79	22,921.10	407.28	4,883.46	131.61	88.52	525,358.68
.....	3,177.18	.....	245.81	.....	.....	77,625.47
.....	2,777.02	.....	545.12	.....	.....	118,675.37
.....	8,979.02	.....	.....	.....	.....	236,172.81
7.80	16,752.98	179.55	1,493.01	102.13	81.65	212,516.80
.....	2,270.25	.....	.....	.....	.....	190,469.48
.....	22,672.76	.....	3,473.18	.....	.....	437,788.79
323.88	20,856.32	509.81	4,210.74	288.11	386.86	769,823.41
.....	22,293.72	.....	2,400.40	.....	.....	446,654.12
583.79	56,936.04	124.08	3,459.36	457.83	17.33	1,590,469.41
372.83	36,650.58	180.11	2,178.59	442.08	107.79	1,007,374.95
4,065.01	711,996.34	6,583.39	104,888.26	3,736.05	4,869.96	14,364,435.21
2,014.95	115,885.39	2,113.06	15,519.79	368.07	665.83	1,600,311.59
.....	.....	.....	.....	.....	.....	.....
.....	29,016.00	454.00	7,422.00	259.00	219.00	825,845.55
2,014.95	86,869.39	1,659.06	8,097.79	109.07	446.83	774,466.04
.....	.....	.....	.....	.....	.....	.....

* Nine months' operation only.

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM

Municipality	Alliston	Arthur	Barrie	Beaverton	Beeton
Population	1,283	1,062	7,075	975	578
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	5,971.13	3,794.69	27,148.99	4,100.58	2,259.49
Commercial light	3,178.55	2,885.23	12,034.21	2,044.32	1,739.97
Commercial power	1,501.42	4,486.73	11,498.49	4,274.73	3,650.34
Municipal power	634.65	.....	1,241.72	.....	.....
Street lighting	2,040.00	1,899.38	4,088.00	1,169.28	1,192.00
Rural service	.....	.....	52.67	2,494.52	.....
Miscellaneous	.....	.....	3,335.24	112.76	2.36
Total earnings	13,325.75	13,066.03	59,399.32	14,196.19	8,844.16
EXPENSES					
Power purchased	7,366.58	9,011.68	35,558.96	5,302.08	6,960.24
Substation operation	.....	.....	55.65	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	914.09	261.09	2,407.03	1,077.79	42.99
Line transformer maintenance	.....	.....	27.00	.....	.....
Meter maintenance	.....	.....	223.13	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	186.32	117.59	1,598.09	2.84	88.84
Promotion of business	.....	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	792.01	478.56	3,735.91	369.09	444.15
Undistributed expenses	.....	.....	1,037.24	.....	.....
Interest	2,323.61	1,722.08	1,211.53	762.07	826.84
Sinking fund and principal payments on debentures	799.61	381.10	1,823.91	345.17	288.15
Total expenses	12,382.22	11,972.10	47,678.45	7,859.04	8,651.21
Gross surplus	943.53	1,093.93	11,720.87	6,337.15	192.95
Gross loss	.....	.....	.....	.....	.....
Depreciation	888.00	647.00	4,063.18	531.00	395.00
Net surplus	55.53	446.93	7,657.69	5,806.15	.....
Net loss	.....	.....	.....	.....	202.05

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Bradford 995	Brechin P.V.	Canning-ton 924	Chats-worth 284	Chesley 1,746	Coldwater 595	Collingw'd 6,004	Cookstown P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,095.91	886.65	4,201.93	1,125.80	6,000.43	1,817.24	19,128.61	1,750.23
2,736.69	976.35	2,088.42	619.36	3,960.43	1,258.82	8,336.32	961.09
2,470.19	1,326.28	1,110.02	663.12	7,454.60	1,468.11	25,751.07	94.41
.....	.....	.....	.....	1,364.90	.....	1,652.91	.....
1,474.20	337.93	1,138.00	414.00	1,620.00	450.00	3,298.30	784.00
.....	.....	139.97	.....	.....	.....	.....	.....
.....	150.02	.....	.....	5.92	.....	2,138.59	.....
10,776.99	3,677.23	8,678.34	2,822.28	20,406.28	4,994.17	60,305.80	3,589.73
6,749.73	2,150.55	3,829.35	1,421.12	12,014.36	2,807.55	43,594.55	2,141.37
.....	.....	.....	.....	.....	.....	49.30	.....
.....	.....	.....	.....	.....	.....	.....	.....
204.60	360.61	833.48	15.61	606.88	435.04	1,120.79	49.70
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	34.44	.....
.....	.....	.....	.....	.....	.....	.....	.....
94.82	28.81	52.20	1.75	127.07	36.20	325.70	12.23
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	1,883.39	.....
472.32	48.77	465.76	176.05	915.99	256.23	3,430.15	376.27
.....	.....	9.54	.....	.....	.....	478.15	.....
1,421.12	317.54	730.15	438.56	995.84	296.20	1,229.18	729.46
351.19	61.36	392.10	48.05	1,178.22	165.08	1,976.61	482.18
9,293.78	2,967.64	6,312.58	2,101.14	15,838.36	3,996.30	54,122.26	3,791.21
1,483.21	709.59	2,365.76	721.14	4,567.92	997.87	6,183.54	.....
.....	.....	.....	.....	.....	.....	.....	201.48
548.00	90.00	422.00	162.00	810.00	401.00	1,187.00	334.00
935.21	619.59	1,943.76	559.14	3,757.92	596.87	4,996.54	.....
.....	.....	.....	.....	.....	.....	.....	535.48

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Creemore	Dundalk	Durham	Elmvale P.V.	Elmwood P.V.
Population	630	727	1,640		
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	1,561.35	1,785.30	4,082.53	1,408.71	643.64
Commercial light	1,121.28	1,620.46	2,988.53	1,104.07	495.40
Commercial power	1,730.54	2,986.40	11,507.62	4,149.08	1,382.42
Municipal power	.....	.....	.....	.....	.....
Street lighting	569.20	740.00	1,584.00	684.00	414.00
Rural service	.....	.....	.....	.....	.....
Miscellaneous	269.57	168.05	.....	.....	.....
Total earnings	5,251.94	7,300.21	20,162.68	7,345.86	2,935.46
EXPENSES					
Power purchased	3,712.44	3,559.17	11,302.21	5,704.02	2,044.37
Substation operation	.....	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	85.61	197.79	261.66	556.69	31.29
Line transformer maintenance	.....	.....	.....	.....	.....
Meter maintenance	.....	.....	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	21.92	73.28	66.91	55.45	2.00
Promotion of business	.....	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	324.70	382.36	1,498.19	350.11	139.20
Undistributed expenses	.....	.....	.....	.....	.....
Interest	268.17	198.30	930.60	65.47	376.17
Sinking fund and principal payments on debentures	298.52	220.05	1,432.57	180.20	252.20
Total expenses	4,711.36	4,630.95	15,492.14	6,911.94	2,845.23
Gross surplus	540.58	2,669.26	4,670.54	433.92	90.23
Gross loss	.....	.....	.....	.....	.....
Depreciation	276.00	291.00	729.00	399.00	167.00
Net surplus	264.58	2,378.26	3,941.54	34.92	.....
Net loss	.....	.....	.....	.....	76.77

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Flesherton 420	Grand Valley 616	Hanover 2,714	Holstein P.V.	Kincardine 2,113	Kirkfield P.V.	Lucknow 917	Markdale 865
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,476.36	2,385.65	10,527.70	687.38	9,470.40	451.45	3,539.73	2,584.59
1,195.51	1,998.82	4,960.87	590.92	4,988.33	920.92	2,831.76	1,591.52
233.46	2,316.55	35,493.73	208.57	5,446.01	439.81	2,193.75	1,365.48
.....	.....	324.80	.....	1,465.52	.....	.....	.....
552.00	832.00	3,010.44	490.00	3,888.00	460.00	1,400.00	650.04
326.21	.....	.....	.....	.....	.....	.....	.....
.....	59.33	.....	13.99	274.50	.....	.....	.....
3,783.54	7,592.35	54,317.54	1,990.86	25,532.76	2,272.18	9,965.24	6,191.63
2,472.58	4,914.80	35,675.23	1,429.05	13,157.95	1,217.50	6,251.60	3,422.02
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
31.53	79.30	3,301.90	32.53	1,161.16	220.87	49.60	284.93
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
61.15	87.20	369.76	16.24	252.59	10.61	56.93	12.99
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
257.64	359.62	1,980.15	190.73	2,862.80	7.97	447.80	589.53
.....	.....	334.29	.....	.....	.....	.....	.....
450.44	265.94	3,016.46	302.71	3,606.35	377.30	1,080.55	493.17
161.16	449.63	3,065.96	132.04	2,040.21	194.25	582.75	181.42
3,434.50	6,156.49	47,743.75	2,103.30	23,081.06	2,028.50	8,469.23	4,984.06
349.04	1,435.86	6,573.79	.....	2,451.70	243.68	1,496.01	1,207.57
.....	.....	.....	112.44	.....	.....	.....	.....
239.00	352.00	2,186.00	81.00	1,230.00	147.00	429.00	370.00
110.04	1,083.86	4,387.79	.....	1,221.70	96.68	1,067.01	837.57
.....	.....	.....	193.44	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	*Meaford	Midland	Mount Forest	Neustadt	Orangeville
Population	2,653	7,157	1,734	452	2,611
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	13,042.58	21,188.50	4,418.91	1,542.94	5,462.28
Commercial light	9,229.46	8,687.61	4,680.69	1,040.23	4,456.08
Commercial power	3,105.17	65,606.78	3,468.18	5,667.84	6,100.37
Municipal power	645.24	2,616.14	1,451.65	.....	342.00
Street lighting	3,698.91	4,061.65	2,582.66	975.00	3,858.05
Rural service	.....	.....	.....	.....	.....
Miscellaneous	35.14	.....	293.44	.....	95.95
Total earnings	29,756.50	102,160.68	16,895.53	9,226.01	20,314.73
EXPENSES					
Power purchased	13,330.64	69,632.20	9,202.86	7,104.98	12,498.86
Substation operation	.....	1,947.11	.....	.....	.....
Substation maintenance	.....	80.87	.....	.....	.....
Distribution system, operation and maintenance	706.32	1,806.51	702.32	58.54	1,476.11
Line transformer maintenance	.....	50.03	.....	.....	.....
Meter maintenance	9.00	589.23	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	220.28	553.62	400.07	41.03	222.37
Promotion of business	.....	1,198.16	.....	.....	.....
Billing and collecting	.....	1,488.14	.....	.....	.....
General office, salaries and expenses	3,357.48	3,866.56	873.38	395.12	838.40
Undistributed expenses	.....	1,166.83	.....	.....	.....
Interest	1,523.37	1,910.42	1,293.21	957.32	1,476.66
Sinking fund and principal payments on debentures	.....	3,879.42	900.85	618.85	1,625.21
Total expenses	19,147.09	88,169.10	13,372.69	9,175.84	18,137.61
Gross surplus	10,609.41	13,991.58	3,522.84	50.17	2,177.12
Gross loss	.....	.....	.....	.....	.....
Depreciation	811.00	4,275.00	844.00	411.00	1,001.00
Net surplus	9,798.41	9,716.58	2,678.84	.....	1,176.12
Net loss	.....	.....	.....	360.83	.....

*Sixteen months' operation.

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

Owen Sound 12,218	Paisley 735	Penetanguishene 3,945	Port McNicoll 650	Port Perry 1,115	Priceville P.V.	Ripley P.V.	Shelburne 1,093
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
33,965.82	3,170.43	6,457.69	1,989.67	5,149.08	492.97	1,887.76	4,331.44
20,304.15	2,223.77	2,997.54	744.38	2,584.67	234.55	2,102.78	3,398.49
29,663.77	740.64	9,598.93	.....	1,451.55	.....	.....	3,737.20
.....	.....	1,621.51	71.55	589.38	.....	.....	500.68
10,614.00	1,892.00	1,810.00	546.00	2,014.69	469.50	1,323.00	1,092.00
.....	.....	.....	.....	.....	.....	106.28	.....
369.07	.....	84.67	.....	.....	.....	.....	.....
94,916.81	8,026.84	22,570.34	3,351.60	11,789.37	1,197.02	5,419.82	13,059.81
43,984.14	3,688.87	11,377.57	1,584.93	4,950.92	829.86	3,624.64	7,221.84
.....	.....	1,930.76	.....	.....	.....	.....	.....
5,412.07	.....	124.60	.....	.....	.....	.....	.....
2,877.49	85.26	566.33	318.80	623.42	43.68	26.68	39.97
.....	.....	11.71	.....	.....	.....	.....	.....
508.66	.....	20.80	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
1,401.09	49.47	244.51	.....	51.00	6.75	60.73	125.62
.....	.....	.....	.....	.....	.....	.....	.....
2,357.76	.....	112.98	.....	.....	.....	.....	.....
6,560.81	267.02	2,573.97	69.46	428.60	35.02	279.62	829.96
1,650.68	.....	.....	.....	.....	.....	.....	.....
4,726.62	871.71	841.77	354.04	1,004.57	388.33	839.52	761.31
1,679.20	458.87	1,293.79	283.83	.....	303.51	225.98	844.31
71,158.52	5,421.20	19,098.79	2,611.06	7,058.51	1,607.15	5,057.17	9,823.01
23,758.29	2,605.64	3,471.55	740.54	4,730.86	.....	362.65	3,236.80
.....	.....	.....	.....	.....	410.13	.....	.....
4,988.17	273.00	951.00	234.00	413.00	121.00	275.00	609.00
18,770.12	2,332.64	2,520.55	506.54	4,317.86	.....	87.65	2,627.80
.....	.....	.....	.....	.....	531.13	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Stayner	Sunderland P.V.	Tara	Teeswater	Thornton P.V.
Population	1,030		502	813	
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,859.76	1,965.84	2,315.21	3,207.62	808.49
Commercial light	1,381.79	1,405.48	1,805.31	2,311.03	296.01
Commercial power	2,882.89	1,039.56	788.84	3,044.29	.....
Municipal power	.....	.....	.....	.....	.....
Street lighting	915.00	540.00	1,700.00	1,656.00	840.00
Rural service	.....	1,043.26	.....	.....	.....
Miscellaneous	6.77	.....	.....	.....	.....
Total earnings	8,046.21	5,994.14	6,609.36	10,218.94	1,944.50
EXPENSES					
Power purchased	4,367.91	2,783.58	4,648.01	6,361.20	1,438.72
Substation operation	.....	.....	.....	.....	.....
Substation maintenance	.....	.....	.....	.....	.....
Distribution system, operation and maintenance	611.09	363.83	206.65	193.68	10.20
Line transformer maintenance	.....	.....	.....	.....	.....
Meter maintenance	.....	.....	.....	.....	.....
Consumers' premises expenses	.....	.....	.....	.....	.....
Street lighting, operation and maintenance	22.85	73.51	112.16	33.60	.....
Promotion of business	.....	.....	.....	.....	.....
Billing and collecting	.....	.....	.....	.....	.....
General office, salaries and expenses	398.02	169.18	309.87	399.59	77.68
Undistributed expenses	.....	.....	.....	.....	.....
Interest	231.65	668.18	1,273.98	1,714.97	491.36
Sinking fund and principal payments on debentures	642.54	194.32	215.10	642.70	251.58
Total expenses	6,274.06	4,252.60	6,765.77	9,345.74	2,269.54
Gross surplus	1,772.15	1,741.54	.....	873.20	.....
Gross loss	.....	.....	156.41	.....	325.04
Depreciation	504.00	191.00	370.00	427.00	201.00
Net surplus	1,268.15	1,550.54	.....	446.20	.....
Net loss	.....	.....	526.41	.....	526.04

" C "—Continued

Hydro Municipalities for Year Ended December 31, 1924

Tottenham 519	Uxbridge 1,453	Victoria Harbour 1,453	Waubaushene P.V.	Wingham 2,440	Woodville 458	GEORGIAN BAY SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,525.46	4,856.83	2,025.54	1,291.80	8,423.91	2,069.02	258,336.02
1,465.00	3,641.10	1,047.42	443.40	7,501.40	1,326.80	154,537.29
787.62	1,720.73	.....	363.63	12,262.45	1,566.83	288,800.20
.....	.....	.....	.....	285.51	.....	14,808.16
1,225.00	2,268.00	753.50	310.00	4,345.01	540.00	85,208.74
.....	71.66	.....	.....	.....	490.13	4,724.70
.....	.....	.....	.....	1,168.16	.....	8,583.53
6,003.08	12,558.32	3,826.46	2,408.83	33,986.44	5,992.78	814,998.64
3,942.05	5,135.84	2,136.88	1,395.79	16,346.18	2,356.15	473,715.68
.....	.....	.....	.....	1,569.52	.....	5,552.34
.....	.....	.....	.....	.....	.....	5,617.54
113.10	522.69	93.05	6.16	2,315.98	346.61	28,739.03
.....	.....	.....	.....	.....	.....	88.74
.....	.....	.....	.....	.....	.....	1,385.26
.....	.....	.....	.....	.....	.....	.....
51.95	63.58	47.38	31.83	215.09	33.80	7,821.78
.....	.....	.....	.....	.....	.....	1,198.16
.....	.....	.....	.....	.....	.....	5,842.27
382.24	711.05	392.73	349.27	1,619.01	143.16	46,679.26
.....	.....	.....	.....	33.57	.....	4,710.30
673.63	800.91	251.13	151.05	3,557.05	397.67	51,596.24
181.53	.....	286.09	151.65	2,960.13	143.98	35,267.13
5,344.50	7,234.07	3,207.26	2,085.75	28,616.53	3,421.37	668,213.73
658.58	5,324.25	619.20	323.08	5,369.91	2,571.41	146,784.91
.....	.....	.....	.....	.....	.....	.....
281.00	336.00	266.00	148.00	1,908.00	130.00	37,342.35
377.58	4,988.25	353.20	175.08	3,461.91	2,441.41	109,442.56
.....	.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

MUSKOKA SYSTEM

Municipality	Gravenhurst	Huntsville	MUSKOKA SYSTEM SUMMARY
Population	1,609	2,286	
EARNINGS	$ c.	$ c.	$ c.
Domestic service	5,344.18	8,783.84	14,128.02
Commercial light	4,355.42	4,903.33	9,258.75
Commercial power	8,777.94	13,692.01	22,469.95
Municipal power	1,421.42	1,170.00	2,591.42
Street lighting	2,168.25	2,200.00	4,368.25
Rural service	.....	.....	.....
Miscellaneous	623.25	405.68	1,028.93
Total earnings	22,690.46	31,154.86	53,845.32
EXPENSES			
Power purchased	8,085.86	24,609.46	32,695.32
Substation operation	.....	.....	.....
Substation maintenance	.....	.....	.....
Distribution system, operation and maintenance	2,515.89	2,503.00	5,018.89
Line transformer maintenance	.....	.....	.....
Meter maintenance	.....	.....	.....
Consumers' premises expenses	.....	.....	.....
Street lighting, operation and maintenance	94.90	186.97	281.87
Promotion of business	.....	.....	.....
Billing and collecting	.....	.....	.....
General office, salaries and expenses	1,657.02	1,281.16	2,938.18
Undistributed expenses	.....	.....	.....
Interest	1,616.11	641.87	2,257.98
Sinking fund and principal payments on debentures	2,249.40	1,132.74	3,382.14
Total expenses	16,219.18	30,355.20	46,574.38
Gross surplus	6,471.28	799.66	7,270.94
Gross loss	.....	.....	.....
Depreciation	1,493.00	661.00	2,154.00
Net surplus	4,978.28	138.66	5,116.94
Net loss	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

ST. LAWRENCE SYSTEM

Alexandria 2,255	Apple Hill P.V.	Brockville 9,384	Chesterville 865	Lancaster 601	Martintown P.V.	Maxville 763
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,464.25	760.72	29,374.80	4,012.00	1,721.60	568.49	2,480.65
4,826.62	654.47	21,015.37	2,743.04	1,201.36	538.33	2,115.84
9,760.48	507.17	42,903.36	8,582.79	71.20	.....	1,278.82
1,552.05	.....	12,502.00	.....	.....	.....	.....
2,819.66	575.00	9,188.50	1,105.00	1,400.00	375.00	1,855.08
.....	.....	.....	.....	.....	118.86	.....
.....	.....	120.00	242.43	.....	.....	.....
24,423.06	2,497.36	115,104.03	16,685.26	4,394.16	1,600.68	7,730.39
14,118.64	1,583.21	47,703.21	10,435.33	4,137.90	1,045.52	4,417.34
.....	.....	5,339.90	.....	.....	.....	.....
.....	.....	939.49	.....	.....	.....	.....
1,184.40	11.35	2,080.60	1,028.43	54.86	5.00	463.45
.....	.....	15.96	.....	.....	.....	.....
.....	.....	1,960.99	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....
185.43	1.50	2,267.71	151.27	52.79	30.70	223.82
.....	.....	170.10	.....	.....	.....	.....
.....	.....	1,641.86	.....	.....	.....	.....
1,270.19	263.04	4,059.68	283.45	249.84	65.14	189.06
173.89	.....	1,273.39	.....	.....	.....	.....
2,721.83	375.51	6,314.90	236.58	749.31	273.13	996.15
2,073.30	181.53	5,785.40	279.50	420.92	194.26	538.82
21,727.68	2,416.14	79,553.19	12,414.56	5,665.62	1,613.75	6,828.64
2,695.38	81.22	35,550.84	4,270.70	.....	.....	901.75
.....	.....	.....	.....	1,271.46	13.07	.....
806.00	107.00	3,341.00	385.75	190.00	87.00	356.00
1,889.38	.....	32,209.84	3,884.95	.....	.....	545.75
.....	25.78	.....	.....	1,461.46	100.07	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

ST. LAWRENCE SYSTEM—Continued

Municipality / Population	Prescott 2,597	Williamsburg P.V.	Winchester 1,090	ST. LAWRENCE SYSTEM SUMMARY
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	6,819.17	899.53	4,703.97	56,805.18
Commercial light	4,048.82	663.81	2,078.22	39,885.88
Commercial power	4,507.92	222.46	1,153.72	68,987.92
Municipal power	1,731.11	.....	.....	15,785.16
Street lighting	3,395.00	270.00	1,170.00	22,153.24
Rural service	.....	.....	.....	118.86
Miscellaneous	182.86	.....	650.82	1,196.11
Total earnings	20,684.88	2,055.80	9,756.73	204,932.35
EXPENSES				
Power purchased	9,879.91	1,376.11	5,464.75	100,161.92
Substation operation	1,918.58	.....	.....	7,258.48
Substation maintenance	139.07	.....	.....	1,078.56
Distribution system, operation and maintenance	1,294.90	143.33	1,035.82	7,302.14
Line transformer maintenance	.....	.....	.....	15.96
Meter maintenance	27.25	.....	.....	1,988.24
Consumers' premises expenses	.....	.....	.....	.....
Street lighting, operation and maintenance	182.30	25.80	126.88	3,248.20
Promotion of business	.....	.....	.....	170.10
Billing and collecting	6.56	.....	.....	1,648.42
General office, salaries and expenses	2,802.63	19.78	671.43	9,874.24
Undistributed expenses	221.50	.....	.....	1,668.78
Interest	.....	85.13	388.93	12,141.47
Sinking fund and principal payments on debentures	1,248.06	129.03	227.57	11,078.39
Total expenses	17,720.76	1,779.18	7,915.38	157,634.90
Gross surplus	2,964.12	276.62	1,841.35	47,297.45
Gross loss	.....	.....	.....	.....
Depreciation	710.00	87.00	402.00	6,471.75
Net surplus	2,254.12	189.62	1,439.35	40,825.70
Net loss	.....	.....	.....	.....

"C"—Continued

Hydro Municipalities for Year Ended December 31, 1924

RIDEAU SYSTEM

Carleton Place 4,254	Kemptville 1,175	Lanark 591	Perth 3,710	Smiths Falls 6,592	RIDEAU SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
13,950.50	4,400.39	1,805.02	12,889.76	28,677.50	61,723.17
8,167.48	5,048.09	1,201.76	7,756.53	14,495.01	36,668.87
24,775.84	3,676.29	114.49	11,717.98	20,676.07	60,960.67
2,270.13	.....	.....	2,457.93	2,717.34	7,445.40
1,871.83	1,537.50	700.00	2,003.33	3,944.08	10,056.74
.....	.....	.....	.....	.....	.....
542.78	10.16	.....	1,602.67	430.78	2,586.39
51,578.56	14,672.43	3,821.27	38,428.20	70,940.78	179,441.24
33,618.93	5,632.29	2,311.46	20,525.18	35,964.33	98,052.19
.....	.....	.....	360.00	1,567.76	1,927.76
123.26	.....	.....	1.50	28.25	153.01
2,838.40	1,698.46	20.20	874.18	2,965.68	8,396.92
156.11	.....	.....	87.80	124.64	368.55
396.89	.....	.....	49.80	151.56	598.25
.....	.....	.....	.....	.....	.....
431.85	95.99	18.15	137.87	277.45	961.31
.....	.....	.....	.....	.....	.....
1,141.30	.....	.....	1,516.47	871.66	3,529.43
1,468.95	1,011.50	219.55	2,581.71	2,539.06	7,820.77
660.93	.....	.....	161.31	1,114.39	1,936.63
3,596.93	1,179.73	353.50	4,446.05	9,115.51	18,691.72
1,426.20	376.62	274.90	1,723.40	7,293.42	11,094.54
45,859.75	9,994.59	3,197.76	32,465.27	62,013.71	153,531.08
5,718.81	4,677.84	623.51	5,962.93	8,927.07	25,910.16
.....	.....	.....	.....	.....	.....
1,480.00	517.00	146.00	1,948.00	4,118.00	8,209.00
4,238.81	4,160.84	477.51	4,014.93	4,809.07	17,701.16
.....	.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

THUNDER BAY SYSTEM		OTTAWA SYSTEM	TRENT SYSTEM
Municipality	Port Arthur	Ottawa	Bloomfield
Population	15,681	116,205	625
EARNINGS			
	$ c.	$ c.	$ c.
Domestic service	65,709.88	201,346.25	2,100.70
Commercial light	42,658.99	97,707.78	1,013.72
Commercial power	420,440.79	44,961.29	2,097.90
Municipal power	35,313.63	32,831.47	.....
Street lighting	16,509.23	68,960.05	1,066.67
Rural service	.....	.....	131.39
Miscellaneous	3,563.14	298.08	.....
Total earnings	584,195.66	446,104.92	6,410.38
EXPENSES			
Power purchased	383,659.32	151,396.61	3,055.07
Substation operation	16,087.38	13,488.89	.....
Substation maintenance	3,719.51	.....	.....
Distribution system, operation and maintenance	15,799.10	28,942.91	41.49
Line transformer maintenance	690.16	373.14	.....
Meter maintenance	2,813.09	6,879.52	.....
Consumers' premises expenses	5.89	.....	.....
Street lighting, operation and maintenance	3,859.27	25,554.02	53.57
Promotion of business	689.52	7,352.11	.....
Billing and collecting	3,814.33	28,887.62	.....
General office, salaries and expenses	10,554.23	15,601.31	365.40
Undistributed expenses	7,451.47	13,017.74	.....
Interest	13,920.55	47,709.74	549.07
Sinking fund and principal payments on debentures	13,447.51	14,621.44	239.02
Total expenses	476,511.33	353,825.05	4,303.62
Gross surplus	107,684.33	92,279.87	2,106.76
Gross loss	.....	.....	.....
Depreciation	18,745.57	49,890.00	261.00
Net surplus	88,938.76	42,389.87	1,845.76
Net loss	.....	.....	.....

"C"—Continued

Hydro Municipalities for the Year Ended December 31, 1924

Havelock	Kingston	Lakefield	Marmora	Norwood
1,255	21,975	1,250	794	765
$ c.	$ c.	$ c.	$ c.	$ c.
4,754.16	74,607.81	3,964.22	2,116.86	3,028.79
1,282.03	61,256.74	3,349.58	1,268.52	1,689.45
2,033.48	51,240.56	2,172.03	216.93	1,229.52
.....	6,622.29	.....	.....	.....
2,056.00	20,000.00	1,851.68	2,088.00	1,913.00
.....	.....	.....	.....	.....
9.01	1,610.11	.....	.....	.....
10,134.68	215,337.51	11,337.51	5,690.31	7,860.76
4,125.96	75,518.62	4,709.30	1,803.54	2,539.35
.....	12,552.42	.....	.....	.....
.....	3,310.13	.....	.....	.....
819.39	12,305.76	1,160.93	83.27	683.24
.....	1,976.07	.....	.....	.....
.....	4,214.81	.....	.....	.....
.....	1,137.50	.....	.....	.....
15.98	8,420.92	37.18	62.16	65.02
.....	965.60	.....	.....	.....
.....	3,232.79	.....	.....	.....
320.70	9,592.34	272.59	440.12	225.08
53.00	12,006.21	.....	.....	53.00
1,742.10	12,786.61	1,785.43	863.08	2,018.50
1,050.96	9,586.45	468.50	683.90	607.42
8,128.09	167,606.23	8,433.93	3,936.07	6,191.61
2,006.59	47,731.28	2,903.58	1,754.24	1,669.15
.....	.....	.....	.....	.....
573.00	9,560.00	604.00	363.00	693.00
1,433.59	38,171.28	2,299.58	1,391.24	976.15
.....	.....	.....	.....	.....

STATEMENT

Detailed Operating Reports of Electrical Departments of

TRENT
SYSTEM—Continued

Municipality	Omemee	Peterboro	Picton
Population	450	21,605	3,135
EARNINGS			
	$ c.	$ c.	$ c.
Domestic service	1,773.36	80,417.54	11,285.18
Commercial light	836.43	41,591.42	5,667.16
Commercial power	3,680.41	67,445.87	6,469.33
Municipal power	.....	1,823.67	2,679.87
Street lighting	868.00	16,369.98	3,531.30
Rural service	.....	.....	.....
Miscellaneous	.....	.....	3,204.15
Total earnings	7,158.20	207,648.48	32,836.99
EXPENSES			
Power purchased	5,722.46	104,407.46	14,540.07
Substation operation	.....	3,007.38	
Substation maintenance	.....	960.46	.....
Distribution system, operation and maintenance	422.62	10,433.82	1,045.14
Line transformer maintenance	.....	1,610.04	.....
Meter maintenance	.....	4,437.29	.....
Consumers' premises expenses	.....	.....	.....
Street lighting, operation and maintenance	88.45	4,827.30	1,060.28
Promotion of business	.....	1,215.77	.....
Billing and collecting	.....	4,810.11	.....
General office, salaries and expenses	264.86	9,252.38	4,883.79
Undistributed expenses	.....	5,138.03	.....
Interest	596.24	18,420.84	.....
Sinking fund and principal payments on debentures	450.01	10,975.18	359.01
Total expenses	7,544.64	179,496.06	21,888.29
Gross surplus	.....	28,152.42	10,948.70
Gross loss	386.44	.....	.....
Depreciation	370.00	9,788.68	1,000.62
Net surplus	.....	18,363.74	9,948.08
Net loss	756.44	.....	.....

" C "—Concluded

Hydro Municipalities for Year Ended December 31, 1924

Warkworth P.V.	Wellington 812	Whitby 4,174	TRENT SYSTEM SUMMARY	ALL SYSTEMS SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.
2,053.79	3,742.91	10,338.56	200,183.88	5,993,231.07
1,226.00	1,627.13	5,224.63	126,032.81	3,566,227.22
.....	2,422.66	12,902.55	151,911.24	6,222,865.88
.....	.....	1,998.85	13,124.68	1,352,966.47
955.00	910.00	2,632.66	54,242.29	1,356,668.97
.....	.....	.....	131.39	75,100.24
.....	.....	8.94	4,832.21	231,663.58
4,234.79	8,702.70	33,106.19	550,458.50	18,798,723.43
1,370.27	3,179.69	14,967.47	235,939.26	9,669,789.40
.....	.....	.....	15,559.80	430,056.09
.....	.....	55.45	4,326.04	202,050.04
10.55	432.81	1,703.93	29,142.95	648,700.62
.....	.....	188.37	3,774.48	82,936.50
.....	.....	239.40	8,891.50	141,231.23
.....	.....	.....	1,137.50	237,316.20
12.00	32.51	1,054.68	15,730.05	269,973.30
.....	.....	.....	2,181.37	202,060.74
.....	.....	719.54	8,762.44	490,273.30
225.46	367.63	1,417.41	27,627.76	890,919.16
.....	.....	377.72	17,627.96	493,067.00
820.20	1,002.35	2,619.73	43,204.15	1,779,991.26
139.14	363.11	1,610.07	26,532.77	1,122,798.87
2,577.62	5,378.10	24,953.77	440,438.03	16,661,163.71
1,657.17	3,324.60	8,152.42	110,020.47	2,137,559.72
.....	.....	.....	.....	.....
123.00	436.10	1,219.00	24,991.40	973,649.62
1,534.17	2,888.50	6,933.42	85,029.07	1,163,910.10
.....	.....	.....	.....	.....

STATEMENT "D"

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Acton—																			
1913	1,236.50	.....	82	....	....	....	10	1,567.48	.....	62	....	....	....	10	318.77	3	.....	.....	147
1914	1,463.72	21,192	146	12	1.07	7.1		1,496.18	19,878	58	28	2.08	7.5		836.13	5	.....	.....	209
1915	1,931.11	29,079	183	13	98	6.5		1,725.73	24,336	53	36	2.59	7.1		1,019.27	5	.....	.....	241
1916	1,942.11	29,685	185	13	88	6.8		1,592.62	35,227	60	52	2.35	4.5		1,565.53	7	.....	.....	252
1917	2,016.13	34,268	200	15	87	5.8		1,600.56	38,244	65	49	2.05	4.2		4,116.69	9	157	26.22	274
1918	2,154.00	41,593	219	16	85	5.2		1,360.35	32,897	61	43	1.80	4.1		5,166.36	9	170	30.39	289
1919	2,628.12	44,352	235	16	93	5.9		1,613.56	39,807	65	51	2.07	4.1		5,329.46	10	199	26.78	310
1920	3,115.26	76,922	260	25	1.00	4.0		1,672.82	40,272	71	47	1.96	4.2		5,230.46	10	200	26.15	341
1921	3,650.48	100,205	301	28	1.01	3.6		2,012.27	56,732	69	68	2.34	3.5		5,558.31	14	216	25.85	384
1922	4,374.68	131,954	351	31	1.03	3.3		2,364.01	70,027	64	91	3.08	3.4		6,901.68	16	267	25.85	431
1923	5,834.01	205,605	383	44	1.26	2.8		2,475.16	77,647	74	87	2.79	3.1		8,729.16	18	315	27.74	475
1924	6,488.68	249,527	399	53	1.38	2.6		2,649.50	70,872	69	82	2.86	3.5		10,472.34	18	339	30.90	486
Agincourt—																			
1923	2,161.85	34,391	84	34	2.14	6.2	None	325.59	2,333	10	19	2.71	13.9	None	1,003.19	2	26	38.58	96
1924	2,329.95	50,686	101	46	2.10	4.6		394.30	5,478	11	43	3.13	7.3		926.19	2	27	34.30	114
Ailsa Craig—																			
1916	579.57	6,270	51	10	95	9.5	None	213.46	1,910	11	....	....	11.2	None	15.57	1	.....	.....	63
1917	776.93	7,584	55	12	1.22	10.2		255.84	932	19	....	....	11.2		1,591.95	4	40	39.80	78
1918	820.95	9,176	58	13	1.22	8.9		299.58	3,432	24	13	1.19	8.7		4,003.23	3	87	46.01	85
1919	1,087.47	12,991	71	15	1.28	8.4		496.94	5,578	27	18	1.62	9.0		3,786.31	1	93	31.03	99
1920	1,292.33	14,654	78	16	1.38	8.8		630.19	6,627	30	18	1.75	9.5		5,400.16	3	141	38.30	111
1921	1,402.73	20,369	95	18	1.23	6.9		722.21	7,553	32	20	1.88	9.6		5,297.07	3	124	42.71	130
1922	1,557.35	25,145	99	21	1.31	6.2		729.78	8,509	32	22	1.90	8.6		5,532.03	3	128	43.22	134

1923	1,708.00	30,602	138	19	1.03	5.5		735.81	9,838	30	27	2.04	7.4		4,267.97	3	124	34.41	170
1924	1,615.40	27,918	111	19	1.08	5.7		810.37	9,998	31	27	2.18	8.1		4,125.76	3	113	36.51	145
Alexandria—																				
1922	4,527.07	68,417	221	26	1.71	6.6		4,350.98	50,916	88	48	4.12	8.5		7,528.43	11	143	52.64	320
1923	5,155.02	69,304	217	26	1.98	7.4		4,592.49	59,014	95	51	4.02	7.7		9,411.13	13	208	45.24	325
1924	5,464.25	68,103	228	26	2.05	7.9		4,826.62	60,008	98	52	4.17	8.0		11,312.53	15	239	47.33	341
Alliston—																				
1918	1,160.23	.....	191	.....			12	713.95	.....	81	.....			12	437.43	4	.....		276
1919	3,084.19	48,870	213	19	1.21	6.3		1,897.62	38,340	88	36	1.80	4.9		2,049.08	8	72	28.46	309
1920	4,255.43	62,464	243	21	1.46	6.8		3,055.99	51,527	88	49	2.89	6.0		4,924.33	14	166	29.66	345
1921	5,253.63	75,424	262	24	1.67	7.0		3,375.50	45,691	88	43	3.20	7.4		3,567.19	15	149	23.94	365
1922	5,554.85	82,484	275	25	1.68	6.7		3,239.50	43,288	84	43	3.21	7.4		1,796.19	11	91	19.74	370
1923	5,951.34	92,844	279	27	1.77	6.4		3,295.53	43,569	83	44	3.31	7.5		1,916.28	11	94	20.38	373
1924	5,971.13	106,834	301	31	1.72	5.5		3,178.55	44,532	86	44	3.12	7.1		2,136.07	10	98	21.73	397
Alvinston—																				
1922	1,586.27	.....	128	.....				1,124.49	.....	50	.....				826.70	5	.....		183
1923	2,693.28	26,474	140	15	1.60	10.1		1,901.92	16,637	52	26	3.04	11.4		3,833.45	6	103	37.21	198
1924	2,937.84	35,595	140	21	1.75	8.3		2,136.23	21,507	53	34	3.36	9.9		4,031.25	7	93	43.34	200
Ancaster Township—																				
1920	6,201.70	116,305	363	27	1.42	5.3	None	646.09	12,257	34	30	1.58	5.3	None	144.17	3	12	12.00	400
1921	7,406.62	153,519	422	30	1.38	4.7		891.37	18,556	34	45	2.19	4.8		130.13	3	15	8.67	459
1922	8,598.01	177,507	467	31	1.53	4.9		993.66	24,542	39	52	2.12	4.0		293.44	4	40	7.34	546
1923	10,377.24	239,348	486	41	1.77	4.3		1,292.61	27,852	47	49	2.29	4.6		402.28	4	40	10.05	537
1924	12,764.29	257,348	514	43	2.12	4.9		1,340.19	29,812	41	56	2.54	4.5		541.13	4	40	13.53	559
Apple Hill—																				
1922	522.93	.....	26	.....				527.94	.....	19	.....				595.57	1	.....		46
1923	688.47	.....	28	.....				609.54	.....	19	.....				659.30	1	.....		48
1924	760.72	10,854	31	30	2.11	7.0		654.47	5,891	18	27	3.03	11.2		507.17	1	13	37.76	50
Arthur—																				
1917	854.24	9,307	60	13	1.19	9.1	10+25	922.38	9,585	51	17	1.51	9.6	10+25	177.21	2	20	....	113
1918	1,065.52	12,457	69	15	1.05	8.5		940.54	9,855	58	14	1.35	9.5		3,285.56	4	80	41.06	131
1919	1,393.50	16,840	84	17	1.38	8.3		1,499.36	16,210	64	21	1.95	9.2		5,103.85	6	130	39.25	154
1920	1,949.56	23,412	95	20	1.81	8.3		1,898.65	19,967	62	25	2.38	9.5		4,948.55	6	126	39.27	163
1921	2,368.81	25,582	101	21	1.95	9.2		2,699.10	21,203	71	25	3.17	12.7		5,013.98	5	122	41.10	177
1922	2,811.99	30,930	120	21	1.95	9.3		2,911.14	22,540	70	27	3.44	12.7		4,325.59	5	100	43.26	195
1923	3,104.17	33,500	140	19	1.84	9.2		3,044.35	23,730	76	26	3.33	12.7		3,990.58	4	89	44.83	220
1924	3,794.69	51,915	144	30	2.23	7.4		2,885.23	26,940	71	30	3.25	10.8		4,486.73	4	91	49.30	219

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Aylmer—																			
1918	2,569.66	.....	392	.....	.....	.....	10+10	1,986.69	.....	112	.....	.....	.....	10+10	799.21	5	.....	.....	509
1919	5,391.99	84,789	347	20	1.30	6.4		4,886.86	77,168	118	55	3.38	6.3		3,318.98	5	104	31.91	470
1920	6,553.82	90,129	379	20	1.44	7.3		5,831.46	77,650	109	59	4.46	7.5		3,192.47	7	146	21.86	495
1921	7,358.00	96,078	416	19	1.47	7.6		6,238.14	78,003	108	61	4.81	8.0		3,834.16	10	171	22.42	534
1922	7,339.17	94,804	465	17	1.32	7.7		6,422.18	83,601	118	59	4.53	7.7		3,683.25	9	175	21.05	592
1923	8,741.34	182,132	480	31	1.51	4.7		5,923.53	128,583	123	87	4.01	4.6		3,336.85	10	200	16.68	613
1924	7,505.68	222,871	499	38	1.28	3.4		4,420.06	147,039	122	100	3.02	3.0		3,379.52	10	193	17.51	631
Ayr—																			
1915	892.63	16,031	79	.....	.....	5.5		773.08	9,477	35	.....	.....	8.1		348.78	1	.....	.....	115
1916	1,084.46	12,314	83	13	1.12	8.8	12+.5	804.00	12,960	48	26	1.61	6.2	12.5+	393.39	2	.....	.....	133
1917	1,124.21	14,228	92	14	1.08	7.9	25	857.27	12,441	48	23	1.50	6.9	25	996.44	2	32	30.20	142
1918	1,178.84	14,666	94	13	1.05	8.0		806.01	10,134	49	17	1.37	7.9		1,033.02	2	41	25.19	145
1919	1,461.64	18,926	103	15	1.19	7.7		1,118.50	14,474	47	27	1.99	7.8		1,015.08	3	41	24.76	153
1920	1,762.84	21,747	105	17	1.40	8.1		1,421.75	18,329	43	35	2.75	7.8		2,251.84	6	70	32.17	154
1921	1,862.55	27,255	115	20	1.35	6.8		1,319.32	15,200	42	30	2.62	8.7		2,546.21	5	86	29.60	162
1922	2,075.16	33,177	129	21	1.34	6.4		1,281.59	18,594	47	33	2.27	6.9		2,217.52	4	78	28.43	180
1923	2,300.13	46,228	143	26	1.34	4.9		1,288.55	24,866	47	44	2.30	5.1		2,592.40	3	71	37.92	193
1924	2,467.40	67,867	157	38	1.37	3.6		1,173.64	21,919	51	37	2.00	5.4		1,758.33	3	78	22.54	211
Baden—																			
1913	884.11	.....	75	.....	.....	.....	None	*	.....	*	.....	.....	.....	None	2,242.77	4	.....	.....	79
1914	1,247.81	6,920	82	7	75	10.0		*	5,547	*	7	75	10.0		4,580.23	4	.....	.....	86
1915	938.33	12,729	72	13	98	7.4		*	.....	*	13	98	7.4		4,588.87	4	.....	.....	76
1916	808.21	8,824	84	16	86	5.5		*	5,772	*	16	86	5.5		5,059.33	5	.....	.....	89

1917	842.09	10,066	58	12	98	8.4		*	5,827	23	12	98	8.4		5,243.91	5	175	29.96	86
1918	975.04	16,543	60	23	98	4.3		270.48	5,865	23	21	98	4.3		5,202.04	4	185	28.11	87
1919	812.56	15,917	68	20	1.06	5.3		285.18	7,372	26	25	97	4.7		5,669.93	5	211	26.87	99
1920	884.43	18,212	73	22	1.05	4.8		453.60	10,089	28	31	1.40	4.5		5,747.18	6	222	25.89	107
1921	958.06	25,280	78	27	1.02	3.8		456.15	10,390	24	36	1.60	4.4		5,967.22	6	230	25.94	108
1922	1,150.47	38,721	86	38	1.11	2.9		440.60	13,894	24	48	1.53	3.2		6,397.12	4	252	25.39	114
1923	1,361.82	53,387	89	49	1.28	2.5		445.92	16,340	25	54	1.48	2.7		7,221.43	4	238	30.34	118
1924	1,463.32	70,707	95	64	1.33	2.1		517.92	17,356	26	56	1.66	3.0		6,851.39	4	232	29.53	125
Barrie—																			
1913	10,071.55	.....	563	....	.....	.....	9	9,252.70	.....	200	....	3.85	....	9	3,390.29	13	.....	.....	776
1914	11,149.49	152,095	651	20	1.54	7.3		9,464.64	138,948	200	58	3.93	6.8		3,712.24	13	.....	.....	864
1915	11,087.68	147,307	843	18	1.24	7.1		9,572.91	177,000	252	65	3.50	5.4		4,567.76	14	.....	.....	1,109
1916	11,907.10	204,420	896	20	1.14	5.8		10,635.67	189,409	257	63	3.50	5.6		6,918.33	18	.....	.....	1,171
1917	11,232.68	242,297	942	22	1.02	4.6		8,750.24	185,095	253	61	2.86	4.8		7,978.72	19	310	25.74	1,214
1918	12,456.76	278,882	956	24	1.08	4.4		7,365.45	178,954	258	58	2.40	4.1		9,296.34	20	340	27.34	1,234
1919	12,395.37	345,723	1,079	23	96	4.2		7,245.39	283,758	268	88	2.25	2.5		12,077.45	22	432	27.96	1,369
1920	14,459.88	534,517	1,279	35	94	2.7		7,245.01	315,778	280	94	2.16	2.3		11,398.66	23	349	25.96	1,582
1921	16,926.24	732,748	1,349	45	1.05	2.3		8,227.70	389,055	267	121	2.57	2.1		10,595.15	27	485	21.85	1,643
1922	19,647.34	976,997	1,517	57	1.14	2.0		9,191.01	460,320	286	139	2.77	2.0		10,471.50	29	376	27.85	1,932
1923	24,779.83	1,590,512	1,597	82	1.29	1.5		10,564.19	614,510	292	177	3.05	1.7		10,528.02	32	480	21.93	2,021
1924	27,201.66	1,720,079	1,645	88	1.40	1.6		12,034.21	600,463	297	170	3.41	2.0		12,730.21	33	602	21.15	1,975
Barton Twp.—(9 months)																			
1924	15,522.23	.....	1,093	....	....	....		1,425.99	.....	77	....	....	....		3,820.54	10	.....	.....	1,180
Beachville—																			
1913	562.97	.....	45	....	....	....	None	*	.....	*	....	....	....	None	5,993.81	4	.....	.....	49
1914	587.33	4,422	45	....	....	....		*	2,988	*	....	....	7.9		5,368.04	4	.....	.....	49
1915	363.33	5,356	37	11	74	7.9		296.37	4,847	12	34	2.05	6.1		5,593.15	4	.....	.....	53
1916	400.81	5,891	42	13	84	6.8		263.62	3,872	12	27	1.83	6.8		5,393.02	3	.....	.....	57
1917	419.11	6,317	44	12	79	6.6		286.14	5,597	12	39	1.99	5.1		6,354.25	3	428	14.85	59
1918	441.44	6,448	47	11	79	6.8		267.81	6,117	13	42	1.86	4.3		7,684.75	3	303	25.36	63
1919	467.51	8,721	53	14	74	5.4		421.38	8,366	13	54	2.70	5.0		7,174.94	3	.....	.....	69
1920	788.33	12,838	69	15	95	6.1		375.22	9,006	19	39	1.65	4.2		8,631.75	3	350	24.66	91
1921	786.32	11,404	71	13	92	6.9		433.10	9,219	23	33	1.57	4.7		7,992.11	3	336	23.79	97
1922	869.79	16,773	74	19	96	5.1		630.79	17,305	25	58	2.10	3.6		8,422.87	3	332	25.37	102
1923	965.48	24,036	76	26	1.06	4.0		607.21	16,127	29	46	1.74	3.7		11,924.75	3	441	29.31	108
1924	1,072.83	29,041	93	29	1.06	3.7		584.43	14,755	30	42	1.65	3.9		13,811.28	2	501	27.57	125

* Domestic and Commercial Light Revenue not divided.

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Beaverton—																				
	1915	1,484.62	.....	131	...	...	...		1,149.67	.....	56	...	...	...		456.74	5	.....	....	192
	1916	1,417.39	20,685	131	13	90	6.9	Flat	1,065.23	17,594	60	25	1.53	6.1	Flat	383.45	6	.....	.....	197
	1917	1,482.00	20,945	148	13	89	7.1		1,041.84	18,162	51	28	1.58	5.7		650.02	7	36	18.06	206
	1918	2,109.23	27,754	127	17	1.28	7.6		1,167.92	22,897	52	37	1.87	5.1		1,235.93	8	60	20.59	187
	1919	2,818.75	39,920	142	23	1.65	7.1		1,318.27	36,495	53	57	2.07	3.6		1,608.86	8	69	23.32	203
	1920	3,472.74	59,573	151	33	1.91	5.8		1,723.15	37,272	52	60	2.76	4.6		3,332.06	11	97	34.35	214
	1921	3,908.27	53,580	159	28	2.05	7.3		2,155.25	38,316	55	58	3.27	5.6		3,790.32	13	125	30.32	227
	1922	4,262.25	76,443	165	39	2.15	5.5		2,114.40	47,621	60	66	2.94	4.5		3,383.24	14	134	25.25	239
	1923	5,508.56	107,088	298	30	1.54	5.1		2,291.72	56,766	61	77	3.11	4.0		4,608.61	14	182	25.32	373
	1924	6,595.10	110,746	321	30	1.79	6.0		2,044.32	57,972	61	79	2.79	3.5		4,274.73	12	171	25.04	394
Beeton—																				
	1918	268.41	.....	62	...	...	...	11+15	144.29	.....	18	...	...	...	11+15	905.60	2	.....	.....	82
	1919	904.40	10,114	66	13	1.14	8.9		738.36	7,926	25	26	2.46	9.4		3,336.77	1	86	38.80	92
	1920	1,284.55	13,050	76	14	1.41	9.8		906.28	10,137	28	30	2.70	8.9		3,740.12	2	86	43.49	106
	1921	1,753.33	18,121	79	19	1.85	9.7		1,242.18	13,595	30	38	3.45	9.1		4,507.27	2	93	48.47	111
	1922	2,107.96	22,921	89	21	1.97	9.4		1,408.90	15,718	29	45	4.05	9.0		3,802.85	3	90	42.25	121
	1923	2,369.07	28,389	93	35	2.12	8.3		1,445.83	18,471	32	48	3.76	7.8		3,037.04	3	84	36.15	128
	1924	2,259.49	36,445	100	31	1.94	6.3		1,739.97	20,135	30	54	4.84	8.9		3,650.34	4	103	35.30	134
Belle River—																				
	1923	3,134.84	52,864	97	45	2.69	5.9		926.81	7,879	19	34	4.06	11.9		523.08	2	17	30.76	118
	1924	3,826.75	70,458	118	54	2.95	5.5		1,010.86	10,532	24	41	3.92	9.6		108.52	2	8	13.56	144

Blenheim—																			
1917	2,256.70	30,314	212	12	89	7.4	10	2,113.67	28,786	84	29	2.09	7.3	10	47.40	3	.....	.....	299
1918	2,281.49	29,136	216	11	88	7.8		1,843.63	21,546	76	22	1.92	8.5		1,578.42	10	81	19.48	302
1919	2,998.75	45,345	259	15	97	6.6		2,541.02	46,942	85	46	2.49	5.4		3,178.87	9	135	23.55	353
1920	3,519.19	70,262	308	19	95	5.0		2,956.41	60,862	91	56	2.71	4.8		3,237.99	11	142	22.80	410
1921	4,396.96	69,897	359	16	1.02	6.3		3,638.77	69,641	93	62	3.25	5.2		3,832.93	11	150	25.55	463
1922	4,861.99	86,881	406	18	1.00	5.6		3,799.58	73,293	98	62	3.23	5.2		4,607.90	11	184	25.04	515
1923	5,270.86	106,973	389	22	1.12	4.9		3,574.09	82,114	101	67	2.94	4.4		4,953.38	13	194	25.53	503
1924	4,537.83	143,366	418	29	94	3.3		3,221.33	96,132	102	79	2.64	3.3		7,729.51	18	293	26.38	538
Bloomfield—																			
1920	1,184.19	12,063	76	13	1.30	9.8	None	607.68	6,283	15	35	3.38	9.7	None	1,000.32	4	36	27.79	95
1921	1,481.86	16,381	78	17	1.58	9.1		665.41	6,114	16	32	3.48	10.9		635.83	3	24	26.49	97
1922	1,585.28	18,410	88	17	1.50	8.8		736.46	7,390	19	32	3.23	10.0		789.12	4	26	30.35	111
1923	1,696.39	22,052	89	20	1.48	7.6		845.06	7,859	17	36	3.91	10.9		2,010.49	6	59	34.07	112
1924	2,231.09	25,530	126	20	1.73	8.7		1,013.72	9,609	19	44	4.69	10.7		2,097.90	6	59	35.55	151
Blyth—(4 months)																			
1924	1,028.20	.....	95	....	....	....		506.84	.....	34	....	....	....		181.43	....	.....	.....	129
Bolton—																			
1915	624.86	6,563	59	.....	.....	9.5		553.80	7,298	42	.....	.....	7.6		313.74	3	.....	.....	104
1916	926.86	9,322	70	12	1.20	9.9	10+25	882.26	13,081	36	28	1.88	6.7	10+25	3,947.32	4	.....	.....	110
1917	1,191.92	12,829	78	13	1.27	9.3		698.70	12,534	44	26	1.46	5.6		2,856.39	5	117	24.41	127
1918	1,262.21	12,072	80	12	1.33	10.0		791.76	12,997	44	24	1.49	6.1		3,882.39	5	110	35.25	129
1919	1,285.93	16,710	90	16	1.19	7.5		874.67	14,154	42	28	1.73	6.2		2,812.67	7	101	28.84	139
1920	1,450.23	19,690	97	17	1.24	7.4		1,380.69	18,262	43	31	2.34	7.6		4,060.05	9	143	28.39	149
1921	1,963.73	26,630	118	19	1.39	7.4		1,593.76	17,686	38	39	3.50	9.0		3,473.82	10	144	24.12	166
1922	2,154.22	27,989	119	20	1.51	7.6		1,310.13	13,980	40	29	2.73	9.4		4,185.85	8	156	26.83	167
1923	2,510.07	33,027	122	23	1.73	7.6		1,097.96	11,680	41	24	2.24	9.4		2,421.67	9	90	26.90	172
1924	2,520.15	35,411	122	24	1.72	7.2		1,215.44	15,841	39	33	2.53	7.7		4,452.75	6	196	22.72	167
Bothwell—																			
1915	230.61	.....	68	.....	.....	.....	Flat	191.21	.....	32	.....	.....	.....		.....	.....	.....	.....	100
1916	928.16	8,662	78	10	1.03	10.7		768.57	8,613	52	17	1.46	8.9	Flat	.....	.....	.....	.....	130
1917	1,085.92	9,890	86	10	1.05	10.9		825.43	8,877	45	16	1.53	9.3		1,500.00	2	.....	.....	133
1918	1,107.02	11,101	89	10	1.05	9.9		740.20	8,254	51	14	1.28	8.9		2,688.09	7	58	46.34	147
1919	1,359.99	15,415	94	14	1.21	8.8		1,015.60	15,262	53	24	1.60	6.7		6,291.48	10	128	49.15	157
1920	1,706.75	16,911	112	13	1.27	10.0		1,306.66	14,787	53	23	2.05	9.1		6,648.65	4	138	48.18	169
1921	2,040.83	22,356	123	15	1.38	9.1		1,532.34	18,996	57	28	2.24	8.1		6,831.32	7	143	47.77	187
1922	2,257.72	30,281	143	18	1.31	7.2		1,407.11	21,322	48	37	2.44	6.6		6,511.40	15	161	40.44	206
1923	2,500.63	41,995	159	22	1.31	5.9		1,162.60	22,848	53	35	1.82	5.0		6,453.83	14	164	39.35	226
1924	2,527.96	53,550	169	27	1.28	4.7		1,229.04	27,402	51	44	1.97	4.5		6,558.02	15	170	38.58	235

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Bradford—																				
	1919	759.12	.....	60	....	....	....	None	869.68	.....	40	....	....	....	None	.....	....	.....	.....	109
	1920	1,727.98	15,352	89	17	1.93	11.3		1,350.90	17,940	47	32	2.39	7.5		428.61	2	16	26.79	138
	1921	2,522.99	33,218	104	27	2.02	7.6		1,822.52	20,656	44	39	3.45	8.8		1,310.02	2	43	30.46	150
	1922	3,032.09	40,024	129	26	1.96	7.5		1,844.21	21,801	47	39	3.27	8.4		1,370.88	2	43	31.88	178
	1923	3,986.23	60,488	137	36	2.42	6.5		2,477.31	29,991	49	51	4.21	8.2		1,846.28	3	59	31.29	189
	1924	4,095.91	54,604	150	32	2.31	7.2		2,736.69	27,314	50	45	4.56	10.1		2,470.19	3	79	31.07	203
Brampton—																				
	1912	3,004.66	.....	409	....	....	....	9+15	2,893.74	.....	104	....	....	....	9+15	3,531.34	12	.....	.....	525
	1913	5,617.61	.....	643	....	....	....		3,986.65	.....	138	....	....	....		10,557.72	16	.....	.....	797
	1914	6,798.89	142,178	627	18	89	4.9		4,055.99	101,751	174	55	2.17	4.0		10,658.33	21	.....	.....	822
	1915	6,860.48	159,435	691	20	86	4.3		4,053.56	116,717	174	56	1.94	3.5		11,624.83	21	.....	.....	88
	1916	6,660.66	165,435	722	20	79	4.0		4,013.51	153,542	175	73	1.92	2.6		12,922.72	24	.....	.....	921
	1917	7,369.15	244,218	771	27	82	3.0		4,185.97	164,055	162	81	2.09	2.6		18,107.41	27	837	21.65	960
	1918	7,942.88	272,601	807	28	83	2.9		4,228.03	171,836	153	91	2.24	2.2		19,161.03	30	712	26.91	990
	1919	8,818.83	328,391	846	32	85	2.7		4,503.94	205,838	180	95	2.09	2.2		14,403.89	32	765	18.83	1,058
	1920	9,746.87	416,246	896	39	91	2.3		5,246.44	254,418	182	116	2.40	2.1		14,628.02	35	813	17.99	1,113
	1921	12,186.84	544,838	964	47	1.05	2.2		5,659.49	279,256	189	23	2.50	2.0		13,311.10	35	829	16.06	1,188
	1922	14,393.19	739,206	1,033	60	1.16	1.9		6,127.54	328,439	193	141	2.65	1.9		16,247.37	43	926	17.55	1,269
	1923	17,807.01	963,973	1,088	73	1.36	1.8		7,879.71	370,885	212	145	3.09	2.1		19,192.57	52	1,073	17.88	1,352
	1924	19,981.44	1,188,064	1,168	88	1.48	1.7		8,331.81	353,471	212	138	3.27	2.3		18,167.86	50	925	19.64	1,430
Brantford—																				
	1914	7,103.77	148,427	1,184	....	....	4.8	8+13	5,392.87	166,469	300	....	....	3.6	8+13	647.69	11	.....	....	1,495

1915	13,629.36	319,439	1,615	19	82	4.3		10,746.67	347,349	321	94	2.89	3.1		12,901.29	18	.....	.....	1,954
1916	17,504.44	468,324	2,056	21	79	3.7		10,530.19	419,933	334	107	2.68	2.5		24,213.00	26	.....	.....	2,316
1917	20,881.94	691,572	2,559	25	75	3.0		10,502.19	655,993	363	157	2.51	1.6		48,639.07	37	2,466	19.72	2,959
1918	26,060.42	1,162,002	2,936	35	79	2.2		9,861.64	568,537	361	30	2.27	1.7		54,748.03	40	2,798	19.50	3,337
1919	34,615.20	1,280,629	3,530	30	82	2.7		10,632.25	660,518	397	139	2.34	1.6		51,469.32	46	2,601	19.79	3,973
1920	44,754.95	2,630,164	3,938	56	95	1.6		10,938.10	945,417	434	165	2.00	1.2		70,609.16	58	3,592	19.65	4,430
1921	59,931.17	3,390,735	4,458	63	1.12	1.8		12,373.68	901,817	530	143	1.95	1.4		79,347.30	80	4,057	19.56	5,068
1922	73,887.64	3,948,531	4,861	68	1.27	1.9		17,127.73	648,274	556	97	2.56	2.6		91,285.54	84	5,590	16.33	5,501
1923	89,693.75	5,827,981	5,230	92	1.43	1.5		22,236.86	1,661,057	587	235	3.15	1.3		82,095.73	90	4,257	19.28	5,907
1924	101,846.38	6,540,921	5,337	103	1.61	1.6		25,042.59	1,996,170	615	277	3.47	1.3		90,901.23	95	4,332	20.99	6,047
Brantford Twp.—																				
1918	440.72	.....	250	.....	.....	.....	None	.....	.....	.....	.....	.....	.....	None	.....	.....	.....	.....	250
1919	5,325.01	131,271	548	20	81	4.1		611.75	16,122	26	52	1.96	3.8		2,950.19	4	101	29.21	578
1920	6,277.87	146,541	391	31	1.34	4.3		670.44	17,434	22	66	2.54	3.8		4,226.65	4	165	25.62	417
1921	7,725.17	188,774	515	31	1.24	4.1		1,171.09	30,779	32	80	3.05	3.8		5,094.81	4	190	26.81	551
1922	10,417.45	308,934	492	51	1.72	3.3		1,538.66	68,542	36	168	3.77	2.2		5,260.09	5	203	25.91	533
1923	12,509.06	421,669	563	74	1.85	2.9		2,287.03	104,305	41	212	4.65	2.2		6,776.71	5	218	31.08	609
1924	13,311.64	486,216	572	71	1.95	2.7		3,061.06	121,114	41	246	6.22	2.5		5,248.17	5	204	25.72	618
Brechin—																				
1915	148.83	.....	13	.....	.....	.....	None	407.78	.....	14	.....	.....	.....	None	1,007.59	1	.....	.....	28
1916	172.42	1,836	16	11	1.02	9.4		404.70	5,370	20	28	2.00	7.5		1,153.32	1	.....	.....	37
1917	194.03	2,131	19	10	90	9.1		528.24	7,364	20	31	2.20	7.1		1,285.50	2	32	40.17	41
1918	277.18	2,631	22	10	1.12	10.5		552.35	8,177	24	30	2.09	6.7		1,555.32	2	35	44.43	48
1919	422.33	5,382	25	18	1.41	7.8		559.35	9,036	25	30	1.86	6.2		2,157.29	3	58	37.20	53
1920	596.76	7,484	24	26	2.07	8.0		707.93	8,909	21	35	2.81	7.9		1,646.15	2	60	27.44	47
1921	650.85	8,317	28	25	1.94	7.8		1,029.78	10,094	22	39	3.99	10.2		2,036.27	3	62	32.84	53
1922	862.55	10,488	32	27	2.25	8.3		991.84	9,567	23	35	3.67	10.5		1,419.77	2	35	40.56	57
1923	955.78	10,190	34	25	2.34	9.3		841.46	8,232	24	29	2.98	10.3		1,201.16	2	35	34.31	60
1924	886.55	10,747	35	26	2.28	8.8		976.35	8,745	25	35	3.25	9.3		1,326.28	2	35	37.89	62
Brigden—																				
1918	413.29	.....	41	.....	.....	.....	15	760.17	.....	37	.....	.....	.....	15	710.37	2	.....	.....	80
1919	625.14	6,817	47	12	1.11	9.2		1,080.00	11,433	36	27	2.50	9.5		3,289.96	3	79	41.64	86
1920	862.91	9,081	57	13	1.26	9.5		1,384.25	14,863	35	35	3.30	9.3		4,868.57	3	109	44.67	95
1921	1,174.28	12,900	71	15	1.38	9.1		1,276.89	16,937	38	37	2.80	7.5		4,115.94	3	116	35.48	112
1922	1,218.06	15,957	78	17	1.30	7.6		1,399.21	15,320	37	35	3.15	9.0		1,994.87	3	110	18.14	118
1923	1,507.04	19,247	85	19	1.47	7.8		1,500.06	16,532	38	38	3.29	9.1		1,474.22	4	54	27.30	127
1924	1,880.91	22,968	89	22	1.80	8.2		1,330.11	17,784	38	39	2.92	7.5		1,836.86	6	135	13.61	133

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Brockville—																				
	1916	12,897.12	144,913	965	....	....	9.0	9	21,994.02	253,153	312	....	....	8.7	9	15,828.62	31	.....	.....	1,308
	1917	14,507.95	152,066	1,018	13	1.22	9.5		22,907.56	246,940	378	59	5.54	9.3		30,744.84	49	631	48.72	1,445
	1918	15,731.23	162,902	1,146	12	1.21	9.6		23,465.06	250,375	353	57	5.35	9.3		49,647.73	47	.....	.....	1,546
	1919	18,510.68	234,923	1,339	15	1.15	7.9		22,816.26	310,515	370	70	5.14	7.3		37,013.69	56	902	41.04	1,765
	1920	20,943.36	324,733	1,396	20	1.25	6.4		20,382.61	368,790	344	89	4.94	5.6		38,572.72	59	1,113	34.66	1,799
	1921	27,780.61	382,226	1,542	21	1.50	7.3		24,960.63	399,529	350	95	5.94	6.2		43,864.40	65	1,210	36.25	1,957
	1922	31,330.52	434,339	1,686	21	1.55	7.4		25,198.96	405,571	374	90	5.61	6.2		49,391.67	63	1,323	37.33	2,123
	1923	35,622.98	516,382	1,838	23	1.61	6.8		26,034.58	418,744	376	93	5.77	6.2		56,620.78	64	1,688	33.51	2,278
	1924	29,374.80	594,611	2,087	25	1.25	5.0		21,015.37	467,693	394	101	4.55	4.5		42,903.36	68	1,424	30.13	2,549
Brussels—(4 months)																				
	1924	1,739.64	.....	142	....	....	....		1,005.46	.....	56	....	....	....		206.87	1	.....	.....	199
Burford—																				
	1916	577.69	9,005	64	....	....	6.4	Flat	380.44	7,569	30	....	....	5.0	Flat	519.72	1	.....	.....	15
	1917	834.73	11,519	70	13	98	7.2		837.51	13,262	34	34	2.18	6.3		549.31	1	25	21.98	914
	1918	1,089.73	15,489	81	16	1.13	7.0		922.16	13,700	27	38	2.56	6.7		434.05	1	25	17.36	109
	1919	1,330.31	18,769	100	17	1.10	7.0		1,064.23	17,680	32	46	2.77	6.0		543.25	1	25	21.73	133
	1920	2,023.41	25,180	115	19	1.56	8.2		1,194.81	17,900	34	45	3.02	6.7		279.34	1	7	40.00	150
	1921	2,817.52	31,375	127	21	1.84	8.9		1,673.49	18,555	37	42	3.77	9.0		132.50	2	4	33.12	166
	1922	3,491.08	42,104	139	25	2.09	8.4		1,966.34	26,266	42	52	3.90	7.5		1,057.03	5	36	29.36	186
	1923	3,507.24	57,432	152	31	1.92	6.1		1,795.05	22,587	38	49	3.95	7.9		994.82	5	51	19.50	195
	1924	3,868.60	71,345	161	38	2.05	5.4		1,396.71	16,092	38	35	3.06	8.7		881.39	4	44	20.03	203

Burgessville—																				
1917	359.41	5,299	29	....	....	....	None	115.15	1,506	9	....	....	....	None	815.36	1	88	.....	39
1918	379.94	4,025	32	11	1.01	9.4		102.66	1,321	10	12	95	7.7		875.67	1	30	29.18	43
1919	423.05	5,623	37	13	95	7.5		127.43	1,375	10	11	1.06	9.3		643.88	1	28	22.99	48
1920	593.18	8,102	45	15	1.10	7.3		147.91	1,955	10	16	1.23	7.6		688.75	1	30	22.99	56
1921	756.62	8,281	44	16	1.43	9.1		288.50	2,615	12	18	2.00	11.0		821.31	1	30	27.38	57
1922	757.10	10,556	49	18	1.29	7.1		257.31	3,131	12	22	1.79	8.1		656.82	1	30	21.89	62
1923	855.50	11,550	50	19	1.42	7.4		246.85	2,986	12	20	1.72	8.3		1,147.62	1	30	38.25	63
1924	917.77	11,354	47	19	1.56	8.2		292.51	3,200	15	19	1.74	9.1		1,177.05	1	30	39.23	63
Caledonia—																				
1913	404.60	.....	17	....	....	....	None	*	.....	16	....	....	....	None	470.34	1	.....	.....	34
1914	880.54	.....	21	....	....	....		*	.....	32	....	....	....		188.54	1	.....	.....	54
1915	265.62	4,618	24	16	98	5.4		950.38	18,325	33	47	2.44	5.4		138.42	1	.....	.....	58
1916	263.39	4,800	27	16	86	5.5		777.38	20,000	37	47	1.85	4.0		519.82	3	.....	.....	67
1917	283.63	5,500	33	13	79	5.2		786.20	22,800	38	50	1.72	3.4		777.85	4	48	16.21	.....
1918	354.98	7,256	40	16	82	4.8		807.14	19,464	42	42	1.68	4.1		922.18	4	33	27.94	86
1919	453.53	9,106	44	17	86	5.0		907.76	24,929	45	46	1.68	3.7		733.31	8	40	18.33	97
1920	671.96	19,407	60	28	93	3.4		1,155.64	44,932	49	76	1.97	2.6		989.23	9	71	14.00	118
1921	994.76	20,634	76	23	1.09	4.8		1,584.02	61,357	55	93	2.40	2.6		1,139.37	7	72	15.82	138
1922	1,202.16	33,960	91	31	1.10	3.5		1,731.70	61,842	60	86	2.41	2.8		958.20	7	77	12.44	158
1923	1,481.52	38,301	100	31	1.23	3.8		1,828.29	63,631	64	82	2.38	2.8		1,377.07	8	85	16.21	172
1924	1,644.39	59,854	113	47	1.28	2.7		2,226.66	80,786	80	93	2.58	2.8		2,658.41	8	108	24.61	201
Cannington—																				
1915	1,599.40	.....	135	....	....	....		1,120.04	.....	65	....	....	....		464.26	6	.....	.....	206
1916	1,720.25	25,049	150	15	1.00	6.9	12.5	973.63	13,808	73	17	1.17	7.1	12.5	462.47	7	.....	.....	230
1917	2,040.39	29,390	137	17	1.19	6.9		936.22	19,722	70	23	1.10	4.7		495.80	7	45	11.02	214
1918	2,264.80	40,160	143	24	1.34	5.6		917.90	16,741	64	20	1.14	5.4		726.87	9	48	15.14	216
1919	2,656.21	53,287	162	27	1.37	5.0		1,437.51	24,496	63	33	1.90	5.9		786.09	9	64	12.28	234
1920	3,713.43	73,365	176	35	1.76	5.1		2,042.35	24,518	68	30	2.34	7.8		1,132.55	10	70	16.18	254
1921	4,384.72	76,107	182	35	2.04	5.8		2,398.50	32,801	70	39	2.85	7.3		1,207.13	11	69	17.49	263
1922	4,563.79	82,542	189	37	2.05	5.5		2,491.41	30,794	67	38	3.10	8.2		1,074.84	10	71	15.14	266
1923	4,265.22	72,116	194	31	1.83	5.9		2,380.92	43,596	72	52	2.88	5.5		1,148.35	12	73	15.73	278
1924	4,341.90	91,107	199	38	1.84	4.8		2,088.42	46,481	66	56	2.52	4.5		1,110.02	10	60	18.56	275
Carleton Place—																				
1920	8,241.32	210,676	636	28	1.08	3.9	6	6,835.20	229,583	144	133	3.95	3.0	6	17,787.06	18	647	27.48	798
1921	11,854.98	296,188	664	37	1.49	4.0		7,974.78	193,141	150	107	4.43	4.1		20,531.28	13	709	28.96	827
1922	12,654.99	249,425	713	29	1.48	5.1		7,206.47	143,660	160	75	3.75	5.0		23,811.52	14	800	29.76	887
1923	13,249.12	270,913	755	29	1.46	4.8		7,671.08	157,775	168	78	3.80	4.8		22,900.01	17	771	29.70	940
1924	13,950.50	317,457	796	34	1.50	4.4		8,167.48	158,421	174	77	3.98	5.2		27,045.97	16	821	32.96	986

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Chatham—																				
	1915	5,581.54	110,552	949	....	....	5.5	8+25	2,806.81	81,805	180	....	....	3.4	8+25	449.70	7	.....	.....	1,136
	1916	10,155.37	176,508	1,171	14	80	5.8		7,427.36	174,204	215	81	3.48	4.3		3,766.37	25	.....	.....	1,401
	1917	13,245.86	257,773	1,261	18	91	5.1		10,633.12	249,739	271	86	3.65	4.3		16,573.93	46	654	25.34	1,578
	1918	14,124.28	371,827	1,309	24	91	3.8		12,102.91	381,388	265	118	3.76	3.1		35,750.36	35	1,269	28.17	1,609
	1919	16,019.69	474,303	1,432	28	93	3.4		12,994.41	434,425	280	129	3.87	3.0		38,069.69	38	1,371	27.77	1,750
	1920	43,039.25	1,175,474	3,360	29	1.07	3.7		27,592.06	801,594	572	115	4.02	3.4		62,829.08	87	2,316	33.78	4,019
	1921	48,442.47	1,524,750	3,442	37	1.17	3.2		31,165.17	945,133	636	122	4.08	3.3		72,338.56	130	2,957	24.46	4,208
	1922	52,252.33	1,657,651	3,540	39	1.23	3.1		33,091.92	1,047,783	745	117	3.70	3.2		77,861.75	131	3,072	25.35	4,416
	1923	58,371.93	2,093,428	3,491	49	1.39	2.7		37,988.73	1,246,010	625	166	5.06	3.0		80,531.46	128	3,233	24.90	4,244
	1924	55,578.51	2,687,021	3,517	64	1.32	2.1		36,375.01	1,730,446	640	228	4.79	2.1		72,019.77	135	2,886	28.42	4,292
Chatsworth—																				
	1917	379.96	4,256	37	10	87	8.9	None	253.75	3,980	23	14	92	6.4	None	.....	....	.....	.....	60
	1918	445.83	5,409	41	11	95	8.2		259.74	3,542	24	13	92	7.3		726.12	1	30	24.20	66
	1919	601.96	8,146	46	16	1.09	6.8		288.85	5,594	20	23	1.20	5.2		622.58	1	23	27.05	67
	1920	724.34	9,279	50	15	1.21	7.8		579.22	7,959	28	24	1.72	7.3		598.26	1	30	19.94	79
	1921	985.81	10,999	52	18	1.58	9.0		786.28	8,386	27	26	2.43	9.4		619.31	1	30	20.64	80
	1922	1,180.48	12,419	52	20	1.89	9.4		789.95	7,737	28	23	2.35	10.2		573.88	1	30	19.13	81
	1923	1,163.89	13,119	56	19	1.73	8.7		743.79	8,586	27	26	2.29	8.6		611.70	1	30	20.39	84
	1924	1,125.80	16,089	56	24	1.67	7.0		619.36	7,435	29	22	1.84	8.4		663.12	1	32	20.67	86
Chesley—																				
	1917	2,122.78	25,792	185	12	95	8.2	Flat	1,971.03	30,058	81	31	....	....	Flat	1,725.38	10	64	26.96	276
	1918	2,348.43	32,368	202	14	1.01	7.2		2,071.77	37,126	78	39	2.17	5.5		2,846.85	13	104	27.37	293
	1919	2,975.29	46,212	226	17	1.10	6.4		2,679.48	46,369	81	48	2.76	5.8		4,642.70	15	169	27.47	322
	1920	4,000.52	68,967	259	22	1.29	5.8		2,943.77	50,415	83	51	2.96	5.8		7,364.09	15	207	35.58	357

1921	5,352.03	84,811	269	26	1.66	6.3		3,523.13	49,937	90	46	3.26	7.0		7,717.82	14	215	35.89	373
1922	5,894.11	84,407	282	25	1.74	7.0		4,301.33	59,095	92	54	3.90	7.2		8,823.91	16	243	36.31	390
1923	6,036.92	91,062	293	25	1.71	6.6		4,201.13	56,266	90	52	3.88	7.4		7,503.74	18	247	30.38	363
1924	6,000.43	112,298	315	31	1.64	5.3		3,960.43	63,344	94	57	3.59	6.3		8,819.50	16	236	37.37	425
Chesterville—																			
1914	530.13	7,672	68	....	....	6.9	None	791.67	10,176	35	....	....	7.7	None	.....	....	.....	.....	103
1915	919.27	12,663	85	14	1.00	7.2		1,187.54	12,104	49	21	2.06	9.8		.....	....	.....	.....	134
1916	1,490.99	15,779	89	17	1.43	9.4		1,240.56	15,179	47	26	2.12	8.2		177.55	1	.....	.....	137
1917	1,505.16	18,395	87	17	1.42	8.2		1,226.80	15,360	45	28	2.18	7.9		2,134.49	2	53	40.27	134
1918	1,485.76	21,485	96	19	1.35	6.9		2,025.36	32,975	48	59	3.63	6.1		3,520.13	2	95	37.05	146
1919	1,815.29	30,414	115	24	1.43	6.0		2,501.13	46,706	39	98	5.34	5.4		3,984.91	2	124	32.13	156
1920	2,618.21	39,488	126	26	1.73	6.6		3,085.60	47,642	47	84	5.47	6.5		6,955.75	2	186	37.40	175
1921	3,559.07	45,564	143	27	2.07	7.8		2,923.10	27,413	56	41	4.35	10.6		6,133.40	3	183	33.57	202
1922	3,955.40	50,992	151	28	2.18	7.7		2,862.69	26,123	52	42	4.41	10.5		5,460.28	3	141	38.72	206
1923	4,098.45	56,004	163	28	2.09	7.4		3,209.30	29,274	56	43	4.77	10.9		7,343.78	3	168	43.71	222
1924	4,012.00	77,590	180	38	1.96	5.2		2,743.04	38,721	62	55	3.87	7.0		8,582.79	4	196	43.32	246
Chippawa—																			
1920	2,078.72	39,243	116	40	2.14	5.3	None	269.76	.....	23	....	1.40	....	None	.....	....	.....	.....	139
1921	2,932.89	70,746	144	41	1.70	4.1		723.18	11,910	26	38	2.32	6.1		.....	....	.....	.....	170
1922	3,373.63	75,044	172	36	1.63	4.4		706.82	14,871	34	41	1.96	4.7		1,487.77	3	60	24.80	209
1923	3,901.58	50,336	190	22	1.71	7.7		750.34	16,128	26	51	2.40	4.6		1,537.85	5	.....	.....	221
1924	3,814.34	52,590	197	23	1.64	7.1		752.04	24,768	31	71	2.17	3.1		766.23	4	37	20.71	232
Clifford —(5½ months)																			
1924	930.03	.....	54	....	....	....		748.84	.....	29	....	....	....		60.40	1	.....	.....	84
Clinton—																			
1914	2,023.70	21,466	179	.....	.....	9.4	10+25	2,028.08	24,696	111	.....	.....	8.2	10+25	1,255.33	7	.....	.....	297
1915	2,930.57	36,598	204	16	1.28	8.2		3,068.63	40,234	110	20	2.31	7.6		2,018.24	6	.....	.....	320
1916	3,161.29	41,986	211	17	1.27	7.5		3,064.37	41,205	122	31	2.30	7.4		2,498.64	7	.....	.....	330
1917	3,220.73	40,965	246	15	1.19	7.9		2,654.30	34,471	115	25	1.92	7.7		2,348.15	7	74	31.73	368
1918	3,536.08	60,774	258	20	1.16	5.8		2,311.42	40,289	121	28	1.63	5.7		3,655.01	10	114	32.06	389
1919	4,447.04	78,737	276	23	1.34	5.6		3,044.93	54,665	124	37	2.05	5.5		4,589.74	11	142	32.32	411
1920	5,013.77	105,302	332	26	1.26	4.8		3,586.69	65,248	140	39	2.13	5.5		4,652.31	11	144	32.31	483
1921	6,045.27	120,135	361	28	1.40	5.0		4,064.94	71,139	130	46	2.61	5.7		3,957.98	11	142	27.87	502
1922	6,478.04	132,243	388	28	1.39	4.8		4,125.00	82,609	131	53	2.64	4.9		4,257.12	11	143	29.77	530
1923	6,253.49	185,553	411	37	1.26	3.3		4,001.92	79,860	131	51	2.54	5.0		7,696.96	11	222	34.67	553
1924	7,232.03	271,364	433	53	1.43	2.9		4,032.42	102,190	132	64	2.55	4.0		7,298.43	11	190	38.41	576

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Coldwater—																			
1913	405.43	.....	48	....	....	....	None	330.25	.....	132	....	....	....	None	247.19	1	.....	.....	81
1914	853.56	12,466	62	19	1.30	6.8		589.85	10,382	39	24	1.40	5.7		617.26	2	.....	.....	103
1915	874.94	16,706	66	21	1.15	5.3		703.35	13,686	37	31	1.54	5.1		363.88	2	.....	.....	105
1916	977.62	16,599	70	20	1.20	5.9		848.82	16,644	39	36	1.85	5.1		247.91	2	.....	.....	111
1917	984.41	22,186	75	25	1.09	4.4		640.85	15,939	39	34	1.37	4.0		182.39	1	20	.....	115
1918	1,078.94	18,058	79	19	1.16	5.9		687.48	12,857	38	28	1.48	5.3		531.90	2	33	16.12	119
1919	1,134.84	21,530	131	14	72	5.2		680.02	14,697	43	29	1.32	4.5		1,064.00	3	71	14.99	177
1920	1,415.14	28,034	87	27	1.36	5.0		1,054.87	21,905	47	39	1.87	4.8		1,548.42	4	85	18.22	138
1921	1,705.16	28,927	87	28	1.63	5.9		1,306.92	19,726	47	35	2.32	6.6		2,079.61	4	102	20.39	138
1922	1,959.10	34,092	97	30	1.77	5.7		1,415.30	19,955	46	35	2.51	7.0		2,575.81	6	112	23.00	149
1923	2,034.86	35,746	98	30	1.73	5.6		1,460.25	21,957	49	37	2.48	6.6		2,841.27	6	120	23.67	153
1924	1,817.24	49,382	111	39	1.44	3.7		1,258.82	27,145	48	47	2.19	4.7		1,468.11	4	66	22.31	163
Collingwood—																			
1913	7,013.66	83,406	477	....	....	8.4	11+10	9,362.17	108,676	220	....	....	8.4	11+10	896.72	18	.....	.....	715
1914	7,857.86	103,598	554	16	1.27	7.6		7,555.54	123,276	232	46	2.78	6.1		5,165.39	21	.....	.....	807
1915	7,094.27	118,336	622	17	1.00	6.0		5,688.26	116,583	233	42	2.04	4.9		9,527.70	26	.....	.....	811
1916	8,320.44	162,464	714	20	1.04	5.1		6,213.86	163,956	243	58	2.18	3.8		23,152.41	33	.....	.....	989
1917	8,734.98	243,070	835	26	94	3.6		5,398.59	189,485	236	66	1.99	2.8		38,989.24	41	1,558	25.04	1,112
1918	11,145.94	257,082	919	24	1.05	4.3		6,287.25	226,399	234	80	2.23	2.7		53,323.26	49	2,149	24.77	1,202
1919	11,510.41	431,071	1,007	37	95	2.7		6,080.21	272,538	235	97	2.17	2.2		32,037.22	50	1,498	21.39	1,292
1920	13,999.34	523,185	1,077	40	1.08	2.7		7,121.77	305,199	242	105	2.45	2.3		26,092.24	52	1,654	15.78	1,371
1921	16,194.56	626,471	1,138	43	1.19	2.7		8,511.75	310,447	246	105	2.88	2.7		18,710.63	53	853	21.94	437
1922	18,019.16	655,716	1,183	47	1.30	2.7		9,843.69	392,532	248	132	3.32	2.5		28,899.13	60	1,193	24.22	1,491
1923	19,139.43	785,397	1,230	53	1.29	2.4		8,457.52	273,316	254	89	2.77	3.0		32,987.40	59	1,270	25.88	1,543
1924	19,128.61	918,992	1,273	61	1.27	2.1		8,336.32	362,111	255	118	2.56	2.2		27,403.98	55	1,188	23.07	1,583

Comber—																			
1915	214.87	3,181	33	....	....	6.8	None	274.49	3,497	33	....	....	7.8	None	.....	....	.....	.....	66
1916	538.57	5,894	37	14	1.32	9.1		678.58	6,729	37	15	1.50	10.1		.....	....	.....	.....	74
1917	541.45	6,542	39	14	1.19	8.3		689.59	7,245	36	17	1.60	9.5		.....	....	.....	.....	75
1918	585.12	6,613	41	14	1.22	8.6		625.91	6,108	35	14	1.47	10.2		.....	....	.....	.....	76
1919	740.75	8,609	48	15	1.29	8.6		865.75	9,253	40	19	1.80	9.4		.....	....	.....	.....	88
1920	958.81	12,974	62	20	1.45	7.4		1,106.74	11,542	40	24	2.30	9.5		4,824.67	2	78	61.85	104
1921	1,275.54	15,852	68	20	1.65	8.0		1,289.89	16,024	40	38	2.69	8.1		5,294.15	2	92	57.54	110
1922	1,472.95	17,892	74	20	1.73	8.2		1,549.37	19,656	42	40	3.15	7.8		4,555.20	2	77	59.16	118
1923	1,743.06	30,952	77	35	1.88	5.6		1,524.22	23,835	42	47	3.02	6.3		4,527.76	2	97	46.67	121
1924	1,789.74	40,431	79	43	1.86	4.3		1,634.10	29,239	47	54	3.03	5.6		3,923.90	2	90	43.60	128
Cookstown—																			
1918	259.56	.....	42	....	.....	....	None	82.15	.....	12	....	.....	....	None	754.50	1	.....	.....	55
1919	806.46	12,488	61	17	1.10	6.5		263.18	4,069	19	18	1.15	6.4		1,335.27	1	40	33.38	81
1920	1,388.97	18,047	71	21	1.63	7.7		468.63	5,809	21	23	1.86	8.1		1,669.48	1	40	41.74	93
1921	1,797.47	20,562	76	23	1.96	8.7		705.24	8,093	23	28	2.39	8.7		1,890.50	2	41	46.10	101
1922	1,965.07	22,020	80	23	2.09	8.8		700.17	8,095	25	28	2.43	8.6		1,207.01	1	26	46.42	106
1923	2,024.44	24,999	81	25	2.09	8.1		811.29	10,679	26	34	2.60	7.5		53.20	1	.....	.....	108
1924	1,750.23	24,647	73	27	1.90	7.0		961.09	11,613	36	31	2.58	8.3		94.41	2	10	.....	111
Courtright—																			
1924	1,993.89	20,204	69	24	2.41	10.0		687.47	9,345	14	56	4.09	7.1		.....	....	.....	.....	83
Creemore—																			
1915	699.81	6,399	78	....	....	10.9	Flat	937.84	7,653	59	....	....	12.2	Flat	939.20	1	.....	.....	138
1916	922.41	9,678	78	14	1.00	7.2		1,041.90	18,745	44	15	1.72	11.9		1,151.96	2	.....	.....	132
1917	973.25	9,257	69	11	1.11	10.5		1,124.74	11,105	55	19	1.91	10.1		1,210.57	3	54	22.42	127
1918	1,070.46	10,159	88	10	1.13	10.4		1,098.57	10,328	51	16	1.72	10.6		1,357.87	3	54	25.14	142
1919	1,229.29	10,812	93	10	1.11	11.1		1,302.94	12,642	53	20	2.05	10.4		1,392.15	5	62	22.45	151
1920	1,448.31	15,168	130	10	93	9.3		1,413.24	14,558	52	23	2.26	9.7		1,516.26	6	68	22.30	188
1921	1,808.03	18,813	111	13	1.25	9.6		1,683.94	19,383	55	29	2.39	8.7		1,422.65	6	69	20.62	172
1922	1,822.54	19,254	122	14	1.30	9.4		1,506.73	17,375	59	25	2.20	8.6		1,425.85	6	65	21.94	187
1923	1,859.32	22,297	126	14	1.22	8.3		1,406.94	19,539	55	29	2.13	7.2		1,747.29	6	72	24.26	187
1924	1,561.35	30,161	131	19	1.01	5.3		1,121.28	23,162	57	34	1.67	4.9		1,730.54	7	65	26.83	195
Dashwood—																			
1918	432.06	3,742	31	8	92	11.5	Flat	311.16	2,780	15	12	1.38	11.0	Flat	2,386.71	1	46	51.88	47
1919	462.51	4,539	35	11	1.10	10.2		373.22	3,054	18	14	1.73	12.2		2,052.60	2	53	38.73	55
1920	578.84	6,017	39	13	1.26	9.6		408.21	3,870	21	15	1.62	10.1		1,524.60	2	52	29.32	62
1921	662.20	7,502	43	14	1.20	8.8		484.77	3,616	22	12	1.84	13.4		1,626.21	2	54	30.11	67
1922	806.68	8,816	46	16	1.52	9.1		648.38	5,875	24	21	2.34	11.0		1,297.43	2	50	25.95	72
1923	954.89	10,333	51	16	1.56	9.2		713.16	5,941	26	19	2.28	12.0		1,384.67	2	52	26.62	79
1924	1,014.24	12,288	53	20	1.63	8.1		719.78	6,786	25	22	2.40	10.9		1,191.47	2	46	23.73	80

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Delaware—																				
	1915	146.16	.....	22	....	....	....	None	114.18	.....	10	....	....	....	None	.....	1	.....	.....	33
	1916	354.60	2,835	23	11	1.35	12.5		141.64	1,823	12	14	1.07	7.8		.....	....	.....	.....	35
	1917	260.94	2,596	24	9	91	10.1		203.25	1,947	12	14	1.21	10.5		.....	....	.....	.....	36
	1918	277.27	3,472	31	10	84	7.9		177.94	1,960	6	18	1.64	9.0		.....	....	.....	.....	37
	1919	457.11	3,799	32	10	1.19	11.0		156.00	1,781	11	16	1.18	11.0		.....	....	.....	.....	43
	1920	852.14	6,285	34	15	2.09	13.5		171.50	1,962	11	15	1.30	8.7		.....	....	.....	.....	45
	1921	822.74	10,545	42	21	1.63	7.8		505.52	3,987	12	28	3.51	12.7		.....	....	.....	.....	54
	1922	840.90	19,996	45	21	1.63	7.6		652.53	4,746	7	39	5.43	13.7		.....	....	.....	.....	52
	1923	829.73	10,940	42	21	1.64	7.5		525.39	4,713	11	35	3.98	11.1		.....	....	.....	.....	53
	1924	822.45	11,215	43	22	1.59	7.2		463.73	4,834	11	37	3.51	9.5		.....	....	.....	.....	54
Dereham Twp.—																				
	1922	1,669.78	.....	158	....	....	....		729.12	.....	20	....	....	....		5,765.90	....	.....	.....	178
	1923	1,505.63	.....	.....	....	....	....		808.96	.....	.....	....	....	....		7,095.22	....	.....	.....	.....
	1924	9,986.44	.....	192	....	....	....		.....	.....	.....	....	....	....		.....	....	.....	.....	192
Dorchester—																				
	1915	579.23	6,840	61	....	....	8.5	None	309.88	4,806	18	....	....	6.4	None	287.95	2	.....	....	81
	1916	613.03	7,329	61	10	1.84	8.4		275.82	4,879	16	19	1.35	5.7		667.93	2	.....	.....	79
	1917	768.06	10,046	70	13	98	7.6		177.25	2,583	11	17	1.14	6.9		314.48	2	.....	.....	83
	1918	810.17	9,895	76	11	92	8.1		188.33	2,710	13	18	.30	6.9		34.81	1	.....	.....	90
	1919	1,043.54	11,187	84	11	1.04	9.3		281.20	2,985	14	18	1.67	9.4		47.14	2	.....	.....	100
	1920	1,274.20	14,260	96	12	1.11	8.9		345.51	5,428	15	30	1.92	6.4		398.94	3	.....	.....	144
	1921	1,511.61	23,328	97	20	1.28	6.5		473.05	7,610	15	42	2.63	6.3		544.88	3	37	14.73	115
	1922	1,717.89	25,175	109	20	1.39	6.8		613.24	8,244	16	44	3.29	7.5		1,203.65	4	73	16.49	129

1923	1,973.07	25,720	117	19	1.40	7.6		465.45	5,879	15	32	2.58	7.9		1,450.29	4	.....	.....	136
1924	1,873.31	26,547	124	18	1.30	7.2		434.44	5,024	16	27	2.34	8.7		1,212.23	4	49	24.74	144
Drayton—																				
1918	942.09	.....	83	.....	.....	.....	Flat	580.32	.....	40	.....	.....	.....	Flat	1,256.17	2	.....	.....	125
1919	1,431.29	11,060	89	11	1.34	12.9		973.35	7,450	42	15	1.93	13.1		1,542.15	1	43	35.86	132
1920	1,582.55	20,312	110	15	1.20	7.8		1,250.48	15,960	30	44	3.47	7.8		54.57	2	28	34.09	142
1921	1,925.38	25,263	106	20	1.58	7.6		1,337.86	19,850	42	40	2.68	6.7		1,223.58	2	37	33.07	150
1922	2,078.59	23,421	117	17	1.56	9.2		1,588.41	27,843	33	61	3.48	5.7		1,566.95	2	34	46.09	152
1923	2,151.10	29,251	119	21	1.50	7.2		1,530.46	27,922	42	55	3.03	5.4		1,606.06	2	45	35.69	163
1924	2,277.46	36,964	121	26	1.58	6.1		1,515.92	25,974	43	51	2.97	5.8		1,660.84	3	40	41.52	167
Dresden —																				
1915	1,093.68	.....	185	.....	.....	.....		1,223.25	.....	109	.....	.....	.....		.....	.....	.....	.....	294
1916	1,995.51	26,473	197	12	87	7.5	Flat	1,986.21	30,352	106	24	1.54	6.5	Flat	.....	.....	.....	.....	303
1917	2,158.62	28,977	206	12	87	7.4		1,983.96	28,874	105	23	1.57	6.9		102.04	1	5	20.58	312
1918	2,308.18	31,560	209	12	92	7.3		2,254.48	31,305	107	24	1.77	7.2		1,198.59	2	55	21.79	318
1919	2,711.78	40,529	236	14	97	6.7		2,730.58	44,775	109	34	2.09	6.1		5,749.20	7	156	36.85	352
1920	3,165.58	49,650	244	17	1.08	6.4		2,941.56	52,213	106	41	2.31	5.6		6,765.64	8	206	32.84	358
1921	3,475.26	60,061	256	20	1.13	5.8		2,808.43	59,402	107	46	2.19	4.7		5,711.52	12	223	25.61	375
1922	3,596.86	64,325	273	20	1.13	5.5		2,925.60	66,439	113	50	2.21	4.4		4,454.51	13	188	23.69	399
1923	3,854.05	80,516	284	23	1.16	4.7		3,073.85	60,746	112	45	2.28	5.0		5,867.57	12	226	25.96	408
1924	3,742.14	101,853	304	29	1.06	3.7		2,874.70	78,135	113	58	2.12	3.7		5,103.76	13	185	27.58	430
Drumbo—																				
1915	304.49	.....	40	.....	.....	.....	None	288.99	.....	30	.....	.....	.....	None	159.85	1	.....	.....	71
1916	340.75	4,481	35	10	77	7.5		277.43	3,718	22	15	1.12	7.6		116.57	.....	.....	.....	57
1917	350.11	4,298	38	10	81	8.1		301.20	4,084	22	15	1.14	7.4		.....	.....	.....	.....	60
1918	392.90	4,592	44	9	79	8.5		299.10	3,923	22	14	1.13	7.6		43.15	1	2	21.57	76
1919	525.50	6,384	48	11	91	8.2		464.76	6,525	23	25	1.70	7.1		199.96	1	10	20.00	72
1920	722.83	7,484	53	12	1.13	9.6		674.50	8,686	24	30	2.34	7.8		109.84	1	6	18.30	78
1921	949.84	8,490	54	13	1.47	11.2		671.94	8,500	24	29	2.33	7.9		312.34	1	10	31.23	79
1922	1,097.50	13,063	76	17	1.40	8.4		717.78	9,807	21	35	2.60	7.3		380.13	1	10	38.01	98
1923	1,187.29	14,858	77	16	1.28	7.9		728.82	10,749	22	40	2.76	6.7		287.25	1	10	28.72	100
1924	1,193.10	18,596	77	20	1.29	6.5		698.83	12,835	22	48	2.30	4.8		513.64	3	20	25.68	102
Dublin —																				
1918	126.62	.....	9	.....	.....	.....	None	257.07	.....	17	.....	.....	.....	None	959.99	2	.....	.....	28
1919	186.54	2,400	13	15	1.20	7.8		352.06	4,660	18	22	1.63	7.6		826.23	2	29	28.49	33
1920	393.82	5,312	21	21	1.56	7.4		423.54	5,249	15	28	2.35	8.4		1,095.00	3	34	32.21	39
1921	503.50	5,920	21	23	1.99	8.5		562.41	5,816	19	24	2.47	9.7		1,172.31	2	37	31.68	43
1922	574.41	7,599	20	31	2.39	7.5		664.68	6,929	22	28	2.76	9.5		1,027.27	3	32	32.10	45
1923	602.42	6,665	25	22	2.00	9.1		635.38	5,448	19	23	2.78	11.6		1,166.44	4	35	33.32	48
1924	610.96	9,552	29	29	1.89	6.5		647.68	7,637	20	37	2.70	7.3		1,136.16	4	31	36.64	53

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Dundalk—																				
	1916	924.30	.....	88	....	....	....	Flat	960.58	.....	63	....	....	....	Flat	618.52	2	.....	.....	153
	1917	926.52	12,065	80	12	92	7.7		872.71	12,718	76	15	1.05	6.9		876.00	4	27	.....	160
	1918	942.02	14,698	91	14	91	6.1		822.35	13,053	60	16	1.01	6.3		1,772.75	4	82	21.61	155
	1919	1,024.86	16,892	99	14	86	6.1		951.61	17,053	71	20	1.12	5.6		2,306.00	4	94	24.54	174
	1920	1,328.45	19,775	99	17	1.12	6.7		1,284.67	21,418	75	24	1.43	6.0		2,208.80	3	85	25.99	177
	1921	1,597.79	18,834	106	15	1.24	8.5		1,680.40	29,030	77	31	1.82	5.8		2,558.03	3	84	30.45	186
	1922	1,869.84	22,767	115	17	1.41	8.2		1,821.35	34,348	75	37	1.99	5.3		2,328.20	3	77	30.24	193
	1923	1,951.86	26,754	122	18	1.33	7.3		1,764.69	26,126	74	29	1.98	6.7		2,829.70	4	88	32.15	200
	1924	1,785.30	28,736	128	19	1.19	6.3		1,620.46	30,451	76	34	1.80	5.3		2,986.40	4	95	31.44	208
Dundas—																				
	1913	3,045.85	.....	377	....	....	....	10+25	4,193.27	.....	134	....	....	....	10+25	3,070.40	27	.....	.....	538
	1914	5,349.24	92,168	520	19	99	5.8		4,198.64	119,947	153	69	2.44	3.5		4,305.96	30	.....	.....	703
	1915	6,139.97	128,600	613	19	90	4.8		4,310.96	157,477	160	84	2.29	2.7		6,930.54	37	.....	.....	810
	1916	6,925.46	146,710	673	19	89	4.8		4,714.78	179,151	168	91	2.39	2.6		10,915.58	35	.....	.....	876
	1917	8,335.64	217,654	783	25	95	3.8		4,190.60	154,950	175	75	2.04	2.7		10,284.87	38	659	15.61	996
	1918	9,361.34	262,147	861	26	95	4.4		4,428.66	192,116	170	92	2.14	2.3		9,077.00	42	590	15.38	1,073
	1919	10,447.60	255,119	631	34	1.40	4.1		5,111.72	213,941	145	123	2.77	2.3		13,861.02	38	839	16.52	814
	1920	8,244.97	423,784	753	47	91	1.9		5,239.16	259,955	158	137	2.76	2.0		21,725.24	42	1,128	19.26	954
	1921	11,047.75	426,368	848	42	1.09	2.6		6,174.18	276,662	170	136	3.03	2.2		21,717.63	50	1,074	20.22	1,068
	1922	12,521.50	507,524	924	47	1.16	2.4		6,386.36	270,767	170	132	3.13	2.3		24,467.72	53	1,265	19.34	1,165
	1923	15,046.86	667,581	949	58	1.23	2.4		6,862.82	282,006	165	142	3.46	2.4		24,542.12	51	1,286	19.08	1,165
	1924	17,799.75	708,811	981	61	1.54	2.5		7,793.49	280,447	166	141	3.92	2.8		23,853.66	48	1,181	20.20	1,195

Dunnville—																			
1918	3,200.84	26,019	143	....	....	....	Flat	3,576.93	47,778	108	....	....	....	Flat	641.00	7	49	.....	258
1919	2,540.80	62,366	171	30	1.24	4.1		5,352.52	128,280	134	80	3.33	4.2		4,649.29	15	182	25.55	320
1920	3,227.66	69,303	205	28	1.31	4.6		6,115.30	158,031	141	93	3.61	3.9		5,832.55	16	228	25.58	362
1921	3,982.33	88,049	242	30	1.37	4.5		6,971.57	192,158	142	113	4.09	3.6		5,881.01	17	233	25.24	401
1922	5,213.57	106,758	290	33	1.63	4.8		8,419.06	204,164	157	113	4.67	4.1		7,359.76	18	255	28.86	465
1923	5,884.65	127,856	347	30	1.41	4.6		7,952.73	224,045	162	115	4.09	3.5		10,252.41	23	331	30.97	532
1924	5,856.39	164,060	386	37	1.33	3.6		7,700.15	224,391	170	113	3.86	3.4		7,826.71	17	273	28.67	573
Durham—																			
1916	1,518.72	17,091	155	....	....	8.9	Flat	1,057.33	13,949	67	....	....	8.8	Flat	.....	....	.....	.....	222
1917	1,619.86	12,821	170	6	79	12.6		954.19	21,855	71	26	1.12	4.3		30.00	1	.....	.....	242
1918	1,812.80	20,682	183	9	85	8.7		1,067.28	16,616	82	19	1.24	6.4		782.44	1	50	15.68	266
1919	2,168.82	29,500	200	12	90	7.4		1,486.18	27,215	83	24	1.50	6.3		713.92	1	50	14.27	284
1920	3,095.24	45,075	223	17	1.15	6.7		2,182.30	37,720	86	37	2.11	5.8		2,430.41	6	116	20.95	316
1921	4,071.98	60,400	252	20	1.35	6.7		2,774.44	40,596	87	39	2.66	6.8		8,893.04	8	280	31.77	347
1922	4,480.34	63,225	273	20	1.42	7.0		3,068.96	49,900	89	47	2.90	6.1		14,269.06	8	392	36.40	370
1923	4,592.86	87,660	285	25	1.34	5.2		3,200.58	58,515	95	51	2.80	5.4		13,672.42	8	361	37.84	388
1924	4,082.53	93,840	297	27	1.17	4.3		2,988.53	61,220	92	55	2.68	4.9		11,507.62	8	397	28.98	397
Dutton—																			
1915	318.85	3,970	108	....	....	8.0	Flat	206.59	2,818	43	....	....	7.3	Flat	.....	1	.....	.....	152
1916	1,353.04	17,243	112	13	1.03	7.8		960.27	13,256	52	23	1.34	7.2		135.31	1	.....	.....	165
1917	1,381.08	17,710	114	13	1.02	7.8		967.98	15,954	54	26	1.49	6.7		73.76	1	10	.....	169
1918	1,420.59	18,079	127	12	98	7.8		1,007.14	15,728	62	22	1.44	6.4		1,001.85	3	45	22.26	192
1919	1,640.83	23,705	139	14	99	6.9		1,105.10	20,094	70	24	1.32	5.5		2,539.93	3	83	30.60	212
1920	1,835.49	26,088	155	14	99	7.0		1,324.59	25,045	71	29	1.73	5.3		2,359.98	3	89	26.52	229
1921	2,035.51	38,559	159	20	1.07	5.3		1,410.52	32,815	75	40	1.57	4.9		2,483.44	3	93	26.70	237
1922	2,163 68	46,781	172	23	1.09	4.6		1,498.41	35,878	73	40	1.68	4.1		2,547.27	4	98	25.99	249
1923	2,479.83	62,503	171	30	1.20	3.9		1,705.44	44,064	72	51	1.97	3.8		3,050.53	6	111	27.48	249
1924	2,591.72	76,694	184	36	1.22	3.4		1,981.25	52,169	73	60	2.28	3.8		3,489.52	6	122	28.60	263
Elmira—																			
1914	1,908.41	20,875	158	....	....	9.5	11.4+	2,020.81	28,490	65	....	....	7.1	11.4+	1,876.49	8	.....	.....	231
1915	2,059.11	27,576	185	13	1.00	7.5	10	1,674.44	28,368	85	32	1.85	5.9	1	2,801.33	10	.....	.....	280
1916	2,211.16	30,817	233	12	88	7.2		1,665.69	35,515	92	33	1.56	4.7		3,635.22	12	.....	.....	338
1917	2,383.62	38,918	238	14	84	6.1		1,854.61	47,159	91	43	1.70	3.9		3,613.47	13	162	22.31	342
1918	2,701.28	51,735	243	17	93	5.2		1,988.36	54,317	89	50	1.84	3.6		4,277.44	14	169	25.31	346
1919	3,206.49	68,574	269	21	98	4.7		2,207.99	68,820	79	73	2.33	3.2		4,621.96	13	196	23.58	361
1920	4,582.08	123,941	313	33	1.22	3.7		2,821.51	82,169	94	73	2.50	3.4		6,117.79	15	235	26.03	422
1921	5,990.36	191,037	348	46	1.43	3.1		3,082.61	95,700	98	81	2.62	3.2		8,020.20	22	416	19.28	468
1922	7,142.86	270,347	383	61	1.63	2.6		4,014.00	103,874	98	88	3.41	3.8		11,132.93	21	453	24.58	502
1923	8,686.57	363,357	407	74	1.78	2.3		4,414.87	124,086	108	95	3.40	3.5		12,359.39	22	483	25.58	537
1924	8,369.49	457,211	438	90	1.65	1.8		3,953.15	135,558	112	102	3.34	3.3		13,149.08	26	459	28.65	576

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Elmvale—																			
1913	284.34	.....	52	.....	.....	.....	None	358.60	.....	52	.....	.....	.....	None	.....	1	.....	.....	105
1914	673.18	6,856	57	10	1.03	9.9		896.11	15,402	48	25	1.49	5.8		438.38	2	.....	.....	107
1915	704.12	7,728	78	10	87	9.1		778.93	16,193	64	25	1.16	3.9		1,186.44	2	.....	.....	144
1916	816.74	10,562	81	11	85	7.7		736.74	18,644	62	25	97	5.0		1,043.96	3	.....	.....	146
1917	881.20	11,868	89	11	86	7.4		696.79	13,041	61	19	95	5.3		810.96	3	.....	.....	153
1918	941.28	12,895	91	11	87	7.2		873.52	16,755	57	23	1.23	5.2		3,699.00	4	159	23.26	152
1919	1,027.05	13,781	98	12	87	7.2		1,030.63	18,028	57	26	1.51	5.8		3,860.83	5	145	26.63	160
1920	1,313.94	16,383	101	13	1.08	8.0		1,120.45	22,548	63	30	1.48	4.9		2,722.19	5	149	24.98	169
1921	1,491.09	17,927	100	15	1.24	8.3		1,501.27	21,738	64	28	1.96	6.9		4,239.56	7	168	25.24	171
1922	1,628.91	22,950	109	18	1.30	7.1		1,437.30	27,523	59	37	1.96	5.2		3,796.04	10	153	24.81	178
1923	1,518.13	25,895	110	19	1.15	5.8		1,476.20	26,955	61	36	2.01	5.4		4,129.47	10	167	24.72	181
1924	1,408.71	29,050	115	21	1.04	5.0		1,104.07	29,419	56	41	1.56	3.8		4,149.08	7	147	28.22	178
Elmwood—																			
1918	282.62	.....	30	.....	.....	.....	None	83.93	.....	15	.....	.....	.....	None	896.32	1	.....	.....	46
1919	467.59	6,266	32	16	1.22	7.5		196.91	2,858	17	14	96	6.9		1,429.31	1	47	30.41	50
1920	592.57	7,950	33	20	1.50	7.4		351.78	5,273	19	24	1.63	6.8		1,514.17	1	46	33.00	53
1921	762.83	8,570	38	19	1.67	8.9		545.58	5,970	17	29	2.67	9.1		1,802.31	1	47	38.35	56
1922	792.14	8,528	35	20	1.83	9.2		528.92	5,710	19	26	2.44	9.2		1,345.94	1	38	35.42	55
1923	693.42	6,985	34	17	1.69	9.9		463.03	4,098	18	18	2.14	11.2		1,329.93	1	36	36.94	53
1924	643.64	9,199	41	20	1.41	7.1		495.40	6,322	17	31	2.43	7.8		1,382.42	1	36	38.10	59
Elora—																			
1915	1,044.49	14,009	89	.....	.....	7.4	10+25	1,820.07	25,431	60	.....	.....	7.1	10+25	197.78	1	.....	.....	150
1916	1,253.03	20,500	105	18	1.08	6.1		1,828.25	27,945	63	38	2.48	6.5		972.12	2	.....	.....	170
1917	1,400.12	31,600	123	23	1.02	4.4		1,937.30	40,200	64	52	2.52	4.8		3,640.75	2	120	30.34	189

1918	1,537.70	28,173	134	18	99	5.4		1,765.65	34,357	59	46	2.39	5.1		5,087.10	2	162	31.40	195
1919	1,809.72	34,910	139	21	1.09	5.2		2,093.34	45,935	65	59	2.65	4.5		7,440.12	3	242	30.74	207
1920	2,256.60	49,514	186	22	1.01	4.6		2,362.02	57,754	70	69	2.81	4.1		6,997.35	3	212	33.01	259
1921	2,590.55	61,731	205	25	1.05	4.2		2,394.68	52,436	68	64	2.94	4.6		6,144.11	3	215	28.58	276
1922	3,407.43	74,104	246	27	1.26	4.6		2,902.98	69,703	70	84	3.50	4.1		8,386.26	3	264	31.77	319
1923	4,093.85	99,973	256	32	1.33	4.0		3,097.29	64,916	65	83	3.97	4.7		9,145.65	3	255	35.86	324
1924	3,871.46	116,997	265	37	1.24	3.4		2,924.40	76,055	68	94	3.64	3.9		7,123.10	3	240	29.68	336
Embro—																				
1915	400.50	.....	65	...	...	...	None	489.67	.....	30	...	...	...	None	.....	...	...	.....	.....	95
1916	633.95	5,690	58	7	85	11.1		598.41	10,333	29	29	1.66	5.8		155.54	2	.....	.....	.....	89
1917	664.53	5,391	60	8	94	12.3		522.37	6,322	31	18	1.45	8.2		132.76	2	.....	.....	.....	93
1918	708.60	6,811	64	9	95	10.4		603.76	5,708	36	14	1.50	10.5		267.29	3	13	20.56	103	
1919	963.98	10,443	66	13	1.22	9.2		809.77	8,631	35	20	1.93	9.4		979.29	3	34	28.80	104	
1920	1,189.47	11,670	71	14	1.40	10.0		1,073.32	8,358	31	22	1.88	12.8		1,722.08	3	51	33.72	105	
1921	1,512.70	13,012	73	15	1.73	11.6		1,234.16	10,559	36	24	2.86	11.7		1,930.84	3	50	38.62	112	
1922	1,601.30	14,321	81	16	1.73	11.1		1,385.94	10,931	31	27	3.49	12.6		1,712.69	3	48	35.68	115	
1923	1,714.85	18,844	82	19	1.74	9.1		1,264.94	13,372	33	33	3.19	9.4		1,825.88	4	65	28.25	119	
1924	1,725.67	25,220	87	24	1.69	7.0		1,096.89	14,170	34	35	2.69	7.7		1,923.51	4	68	28.29	125	
Erieau—																				
*1924	570.58	.....	49	...	...	...		35.06	.....	2	...	...	...		153.88	1	.....	.....	52	
Essex—																				
†1924	9,750.25	.....	316	...	...	...		7,609.52	.....	102	...	...	...		6,047.57	10	.....	.....	428	
Etobicoke Twp.—																				
1918	16,081.39	.....	.....	...	...	...	8+25	1,816.74	.....	.....	...	...	...	8+25	5,027.80	...	.....	.....	.....	
1919	11,905.18	.....	864	...	...	...		1,567.41	.....	60	...	...	...		5,010.68	13	236	21.23	937	
1920	17,352.35	129,700	1.140	...	...	...		1,985.92	40,600	77	...	...	...		5,078.76	12	253	20.07	1,229	
1921	21,326.96	441,178	1,515	24	1.17	4.8		2,734.25	56,592	83	57	2.74	4.8		5,076.25	14	295	17.21	1,612	
1922	29,162.15	639,888	2,166	28	1.32	4.5		3,737.70	116,924	130	91	2.93	3.2		6,019.24	14	295	20.40	2,310	
1923	46,352.59	1,092,985	2,704	33	1.42	4.2		6,445.75	157,518	176	74	3.05	4.0		6,743 04	19	358	19.11	2,899	
1924	47,492.23	1,184,924	3,051	34	1.38	4.0		6,896.50	149,496	199	66	3.06	4.5		5,596.82	16	348	16.08	3,266	
Exeter—																				
1917	2,030.27	25,524	170	13	99	7.9	10+25	1,784.53	21,152	87	20	1.71	8.4	10+25	2,363.60	3	92	25.69	260	
1918	2,327.79	29,434	187	14	1.10	7.9		1,803.63	21,753	84	21	1.75	8.2		4,163.70	3	140	29.74	274	
1919	2,806.26	41,835	211	16	1.11	6.9		2,383.33	30,522	88	29	2.26	7.8		4,159.40	5	143	29.09	304	
1920	3,402.65	50,578	234	18	1.22	6.7		2,558.70	34,103	94	30	2.27	7.5		4,398.97	7	162	27.16	335	
1921	4,196.23	88,361	278	26	1.26	4.7		2,815.15	43,927	90	41	2.61	6.4		4,916.13	7	182	27.01	375	
1922	5,217.29	133,719	304	38	1.49	3.9		3,069.92	48,291	92	44	2.81	6.3		5,270.23	8	187	28.18	404	
1923	6,182.73	177,624	326	45	1.58	3.5		3,081.61	54,157	97	46	2.64	5.6		5,720.97	8	199	28.75	431	
1924	6,249.74	230,565	358	56	1.52	2.7		2,906.20	63,430	101	53	2.45	4.6		5,778.57	9	184	31.40	468	

* 4 months. † 14 months.

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Fergus—																				
	1915	1,314.03	19,328	114	....	....	6.8	10+25	2,367.91	37,844	91	....	....	6.3	10+25	882.24	7	.....	.....	212
	1916	1,621.27	24,275	149	16	1.03	6.7		2,111.16	34,953	92	32	2.00	6.0		2,819.21	7	.....	.....	248
	1917	1,822.14	29,351	177	15	93	6.2		2,028.47	37,127	93	33	1.82	5.5		1,959.57	8	67	29.25	278
	1918	2,086.39	42,774	198	19	92	4.8		2,099.60	44,824	87	41	1.94	4.6		3,332.50	10	125	26.66	295
	1919	2,629.72	47,157	212	19	1.03	5.5		2,699.88	60,017	86	58	2.68	4.5		3,573.66	10	153	23.36	308
	1920	3,030.75	58,538	291	17	87	5.2		2,775.01	51,512	96	45	2.41	5.4		3,522.57	12	152	23.17	399
	1921	4,072.20	70,683	310	19	1.10	5.7		3,873.68	74,448	100	62	3.23	5.2		4,191.93	15	224	18.71	425
	1922	6,037.68	143,806	342	36	1.54	4.2		4,011.60	82,405	103	67	3.30	4.8		5,555.43	15	261	21.29	460
	1923	6,020.54	186,237	380	32	1.32	3.2		3,902.24	90,164	96	78	3.38	4.3		6,190.06	13	293	21.12	489
	1924	5,889.68	226,891	412	47	1.24	2.6		2,977.59	78,882	87	71	2.70	3.8		5,999.08	16	254	23.22	515
Flesherton—																				
	1916	568.76	.....	73	....	....	....	None	423.83	.....	30	....	....	....	None	.....	....	.....	.....	103
	1917	621.93	8,364	70	9	74	7.4		387.92	7,545	31	20	1.04	5.1		.....	.....	.....	.....	101
	1918	593.44	8,116	52	11	81	9.3		426.20	6,647	28	18	1.20	6.4		160.58	1	17	.....	81
	1919	725.42	.....	70	....	....	....		437.61	.....	37	....	....	....		970.27	2	55	17.63	109
	1920	1,152.24	.....	85	....	1.13	....		763.00	.....	39	....	1.62	....		701.76	1	37	18.97	125
	1921	1,585.13	17,321	85	17	1.55	9.1		1,278.80	17,987	37	40	2.88	6.5		446.07	1	25	17.84	123
	1922	1,791.37	20,064	88	19	1.71	9.1		1,466.00	22,344	39	49	3.21	6.5		425.76	1	25	17.03	128
	1923	1,654.95	19,503	91	17	1.53	9.0		1,145.06	21,890	41	45	2.39	5.3		424.53	1	25	16.98	133
	1924	1,802.57	26,949	99	24	1.58	6.6		1,195.51	23,636	30	55	2.77	5.0		233.46	1	25	9.34	130
Ford City—																				
	1922	6,501.74	.....	912	....	....	....		1,745.29	.....	112	....	....	....		8,328.14	23	.....	.....	.....
	1923	23,500.72	1,024,161	1,155	73	1.69	2.2		8,059.08	302,516	150	168	4.47	2.6		31,668.46	30	1,195	26.50	1,335
	1924	35,396.27	1,738,509	1,670	102	2.09	2.0		10,570.87	436,544	170	227	5.50	2.4		35,605.01	26	1,252	28.44	1,866

Forest—																			
1917	.....	.....	260	....	....	....	10	.....	.....	104	....	....	....	10	.....	6	.....	.....	370
1918	2,890.91	28,976	268	9	90	9.9		1,899.09	16,504	100	13	1.55	11.5		4,048.14	8	113	35.82	376
1919	3,307.14	33,720	281	10	97	9.8		2,187.74	22,253	116	16	1.57	9.8		4,076.79	14	118	35.40	411
1920	4,406.18	41,264	311	12	1.16	9.8		2,696.04	25,704	102	21	2.20	10.5		4,310.29	14	124	34.76	427
1921	5,366.42	54,057	337	13	1.33	9.9		3,348.69	37,018	106	30	2.63	9.0		4,195.47	15	124	33.83	458
1922	5,784.92	71,850	375	17	1.35	8.0		3,550.92	46,906	102	37	2.83	7.5		4,677.37	20	135	34.65	497
1923	5,991.76	84,858	391	18	1.27	7.0		3,584.25	56,397	104	45	2.87	6.5		3,455.66	22	123	28.09	517
1924	6,317.65	102,311	400	22	1.33	6.0		3,299.32	57,537	109	45	2.57	5.7		4,708.45	22	155	30.37	531
Galt—																			
1912	8,183.69	.....	830	....	1.22	....	11	9,732.86	.....	250	....	....	....	11	10,042.59	47	.....	.....	1,127
1913	10,535.38	.....	1,122	....	1.10	....		11,648.49	.....	353	....	3.25	....		16,575.61	65	.....	.....	1,540
1914	15,797.16	300,121	1,745	20	1.08	5.3		11,952.75	289,857	339	68	2.80	4.1		23,826.87	70	.....	.....	2,154
1915	17,024.42	512,443	2,038	23	75	3.3		8,794.36	350,788	375	92	2.10	2.3		30,547.84	75	.....	.....	2,488
1916	19,961.17	716,396	2,236	28	78	2.8		10,485.26	532,860	386	115	2.30	2.0		36,029.78	79	.....	.....	2,701
1917	24,248.31	1,023,106	2,444	36	86	2.4		12,082.97	694,661	371	156	2.71	1.7		48,261.79	83	2,716	17.77	2,898
1918	26,901.52	1,221,416	2,460	41	91	2.2		12,190.29	602,628	371	135	2.73	2.0		54,541.61	87	3,082	17.69	2,918
1919	29,669.11	1,409,698	2,594	46	96	2.1		13,856.90	696,221	381	152	3.03	2.0		43,775.91	100	2,632	16.63	3,075
1920	38,460.34	1,925,475	2,766	58	1.17	2.0		17,575.07	856,285	404	176	3.63	2.0		49,159.43	103	3,032	16.21	3,273
1921	44,879.01	2,460,073	2,962	70	1.26	1.8		19,055.01	963,067	417	192	3.81	2.0		47,079.49	107	3,259	14.45	3,486
1922	61,672.58	3,408,568	3,092	92	1.66	1.8		23,325.29	1,122,766	442	212	4.40	2.0		60,032.86	118	3,420	17.55	3,652
1923	67,731.45	4,335,491	3,180	115	1.80	1.6		23,275.04	1,138,830	450	213	4.35	2.0		64,340.37	120	3,048	21.11	3,854
1924	84,140.65	4,841,447	3,289	125	2.17	1.7		29,210.79	1,331,347	504	233	5.10	2.2		73,178.03	115	3,074	23.80	3,908
Georgetown—																			
1913	661.49	.....	160	....	....	....	10+10	842.87	.....	50	....	....	....	10+10	234.32	5	.....	.....	285
1914	3,069.02	42,328	242	17	1.27	7.2		2,362.33	29,544	75	39	3.15	8.0		2,976.61	17	.....	.....	334
1915	2,999.83	43,392	294	14	93	6.9		2,276.41	35,318	97	34	2.20	6.5		8,734.01	16	.....	.....	407
1916	3,174.63	56,191	306	16	88	5.6		2,101.00	53,129	99	45	1.79	4.0		10,726.24	21	.....	.....	426
1917	3,370.42	66,131	319	18	90	5.1		2,291.61	51,373	90	45	2.03	4.5		12,714.94	22	454	28.45	431
1918	3,830.25	80,314	330	20	98	4.7		2,345.75	52,361	84	50	2.24	4.5		13,184.53	24	475	27.75	438
1919	3,797.66	102,486	380	23	84	3.7		2,428.41	79,906	103	65	1.97	3.0		12,754.41	28	552	23.11	511
1920	4,599.82	118,109	373	26	1.03	3.9		3,276.91	99,553	94	88	2.90	3.3		15,701.12	28	639	24.57	495
1921	5,043.90	160,795	419	32	1.00	3.1		2,964.37	94,999	100	80	2.47	3.1		13,546.94	29	659	20.56	548
1922	6,423.03	227,174	556	39	1.09	2.8		3,490.50	122,264	126	90	2.51	2.7		17,400.06	31	643	27.06	713
1923	8,346.96	288,103	559	42	1.24	2.8		3,404.54	128,367	91	117	3.11	2.6		20,304.47	27	734	27.70	657
1924	9,097.52	324,357	553	49	1.36	2.8		3,941.28	146,399	104	124	3.35	2.7		17,742.40	26	710	24.95	683
Glencoe—																			
1920	630.50	.....	124	....	....	....	8	675.34	.....	56	....	....	....	10	130.08	2	.....	.....	182
1921	2,927.75	32,362	143	19	1.71	9.0		2,724.24	23,674	62	32	3.66	11.5		2,110.44	3	46	45.88	208
1922	3,281.92	39,096	172	21	1.74	8.4		2,688.42	34,343	65	45	3.56	7.8		2,219.92	4	51	43.53	241
1923	3,704.11	33,480	186	15	1.68	11.0		2,609.05	24,940	69	30	3.15	10.4		2,214.33	6	65	34.07	261
1924	3,033.99	34,740	193	15	1.33	8.9		2,165.83	21,750	90	23	2.26	9.8		3,606.15	7	115	31.35	290

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Goderich—																			
1914	7,197.00	83,805	400	.....	.....	8.6	9	4,196.49	79,874	155	.....	.....	5.3	9	1,240.73	10	.....	.....	565
1915	6,072.51	92,406	441	18	1.20	6.6		5,066.76	121,599	168	62	2.60	4.1		5,645.26	8	.....	.....	617
1916	7,086.32	108,654	511	19	1.24	6.5		5,253.15	98,221	159	50	2.68	5.4		5,498.56	19	.....	.....	679
1917	8,161.85	132,899	539	21	1.29	6.1		5,127.44	99,868	150	54	2.75	5.1		7,079.23	10	252	28.09	699
1918	7,980.21	133,723	566	20	1.20	5.9		4,663.62	86,241	147	48	2.61	5.4		12,485.34	16	428	29.17	729
1919	8,216.24	215,512	690	26	98	3.8		5,317.77	118,955	163	61	2.39	3.9		18,894.59	13	516	36.62	866
1920	10,687.31	203,717	793	21	1.12	5.2		6,367.10	152,382	179	71	2.96	4.2		16,550.96	17	403	41.07	989
1921	12,258.50	258,684	816	26	1.25	4.7		6,097.39	167,942	182	77	2.80	3.6		15,859.39	17	452	35.09	1,015
1922	13,932.54	240,383	916	23	1.34	5.8		6,775.78	175,075	187	79	3.05	3.8		15,156.13	14	393	38.57	1,117
1923	16,341.86	407,166	1,008	33	1.35	4.0		8,663.03	214,344	207	86	3.48	4.0		18,246.94	19	503	36.47	1,234
1924	16,425.61	489,825	1,181	37	1.25	3.4		8,030.31	229,420	225	89	3.10	3.5		23,049.22	22	780	29.55	1,428
Grand Valley—																			
1917	714.68	7,474	55	11	1.08	9.6	10+25	964.59	10,065	54	10	1.50	9.6	10+25	.....	1	.....	.....	110
1918	848.56	10,089	58	14	1.25	8.4		967.98	11,113	48	18	1.58	8.7		1,581.78	2	38	41.62	108
1919	1,110.28	14,172	69	15	1.34	8.8		987.20	11,582	48	20	1.55	7.8		1,582.91	1	48	32.97	117
1920	1,725.49	19,477	87	19	1.65	8.8		1,484.90	16,388	50	27	2.47	9.1		1,631.54	1	48	33.99	138
1921	2,202.44	23,149	98	20	1.87	9.5		2,157.32	17,781	53	28	3.40	12.1		1,869.20	2	53	35.27	153
1922	2,493.03	24,664	103	19	2.49	10.1		2,262.67	19,655	53	31	3.56	11.5		1,786.85	2	58	30.80	158
1923	2,599.23	30,833	114	23	1.90	8.4		2,322.94	21,125	52	33	3.72	10.9		2,042.86	2	58	35.22	168
1924	2,385.65	37,311	120	26	1.70	6.5		1,998.82	23,071	54	36	3.14	8.7		2,316.55	3	67	34.58	177
Grantham Twp.—(9 months)																			
*1924	7,590.67	.....	289	.....	.....	.....		.....	.....	.....	.....	.....	.....		.....	.....	.....	.....	289
Granton—																			
1917	484.69	5,782	42	12	96	8.4	None	176.93	1,774	16	.....	.....	10.0	None	333.85	1	.....	.....	59
1918	552.01	5,580	48	10	1.02	9.8		203.06	1,690	18	8	99	12.0		1,396.61	1	47	29.71	67

1919	661.90	7,000	51	11	1.08	9.4		265.43	1,750	21	7	1.05	15.2		1,321.67	1	41	32.23	73
1920	886.41	11,599	57	18	1.49	7.9		407.45	5,355	21	21	1.60	7.6		1,562.80	2	45	34.73	80
1921	1,085.25	15,898	63	21	1.44	6.8		508.75	6,265	22	24	1.93	8.1		1,747.17	2	42	41.60	87
1922	1,184.71	18,110	63	24	1.57	6.5		532.53	6,159	23	22	1.93	8.6		1,637.41	2	42	38.99	88
1923	1,170.46	23,657	63	31	1.54	4.9		519.99	7,326	24	25	1.80	7.0		1,851.57	2	44	42.08	89
1924	1,179.58	26,800	72	33	1.46	4.4		525.30	8,500	24	30	1.74	5.8		1,706.48	1	43	39.69	97
Gravenhurst—																				
1917	2,350.79	39,025	251	13	78	6.0	Flat	4,412.55	171,716	69	207	5.33	2.6	Flat	4,892.05	9	292	16.76	329
1918	1,995.82	37,930	264	12	64	5.2		4,624.55	141,329	59	184	5.89	3.2		4,786.06	8	352	13.59	331
1919	2,326.25	51,625	269	16	72	4.5		4,901.04	196,134	74	221	5.52	2.5		4,991.09	10	313	15.94	353
1920	2,832.40	59,160	290	17	81	4.8		4,762.31	200,418	80	217	5.15	2.3		6,576.74	12	306	21.48	382
1921	4,219.34	69,942	294	20	1.20	6.0		6,239.31	214,246	75	238	6.93	2.9		5,528.86	12	213	25.96	381
1922	5,284.76	83,449	338	22	1.39	6.3		3,445.13	88,109	78	95	3.73	3.9		8,246.95	11	302	27.31	427
1923	5,748.58	116,601	343	28	1.39	4.9		3,967.40	141,469	88	133	3.65	3.5		9,809.11	11	354	27.70	442
1924	5,344.18	132,689	351	32	1.28	4.0		4,355.42	171,939	63	190	4.81	2.5		10,199.36	12	336	30.36	426
Guelph—																				
1912	10,251.87	.....	960	.....	.....	.....	8+25	16,400.57	.....	345	.....	.....	.....	8+15	30,139.00	73	.....	.....	1,378
1913	11,528.07	224,373	1,260	17	87	5.2		15,075.61	287,561	400	67	3.38	5.2		42,091.34	85	.....	.....	1,745
1914	16,920.54	286,032	1,573	17	1.00	5.9		15,923.51	325,080	441	65	3.16	4.9		38,148.46	80	.....	.....	2,094
1915	15,514.10	366,928	1,824	18	76	4.2		12,692.86	437,567	474	83	2.32	2.8		38,404.28	81	.....	.....	2,379
1916	17,221.76	469,528	2,033	20	74	3.7		13,710.72	522,526	490	91	2.36	2.6		48,369.83	86	.....	.....	2,609
1917	19,379.44	594,936	2,202	23	77	3.3		13,760.01	576,911	505	97	2.31	2.4		57,380.71	87	2,578	22.26	2,794
1918	21,594.80	666,422	2,380	24	78	3.2		13,070.44	589,498	512	96	2.14	2.2		62,480.67	83	3,496	17.87	2,975
1919	25,157.62	862,801	2,677	27	89	3.3		15,487.44	783,989	529	123	2.44	2.0		54,810.39	89	3,437	15.95	3,295
1920	30,371.10	1,152,485	3,064	32	83	2.6		19,523.95	905,198	548	138	2.97	2.2		69,534.96	93	4,376	15.89	3,705
1921	38,421.71	1,422,305	3,292	36	97	2.7		23,439.07	987,198	579	142	3.37	2.4		72,549.55	90	5,036	14.41	3,961
1922	47,212.44	2,000,093	3,610	48	1.14	2.3		28,146.36	1,154,197	601	163	3.97	2.4		87,341.42	103	5,205	17.16	4,314
1923	58,659.14	2,975,898	3,938	62	1.26	2.0		31,887.33	1,388,240	615	188	4.33	2.2		110,771.29	106	4,951	22.37	4,659
1924	67,385.61	3,454,186	4,332	69	1.36	2.0		34,181.62	1,503,142	655	197	4.49	2.3		99,232.57	109	5,039	19.69	5,136
Hagersville—																				
1913	81.92	.....	3	.....	.....	.....	None	*	.....	24	.....	.....	.....	None	746.85	3	.....	.....	30
1914	1,222.23	16,053	70	.....	.....	5.4		*	6,446	60	.....	.....	5.4		2,679.08	3	.....	.....	133
1915	1,172.85	23,213	114	21	1.06	5.1		1,592.59	22,676	73	28	1.99	5.2		2,434.62	3	.....	.....	190
1916	1,606.80	30,025	127	21	1.11	5.4		1,343.82	27,840	69	32	1.58	4.8		2,527.92	4	.....	.....	200
1917	1,602.64	29,611	138	19	1.01	5.4		1,252.54	34,696	68	42	1.54	3.6		2,289.37	4	88	26.02	210
1918	1,624.89	32,496	140	19	97	5.0		1,299.96	42,757	68	52	1.59	3.0		2,632.30	3	98	26.86	311
1919	1,808.19	42,127	148	24	1.02	4.3		1,400.40	49,344	78	53	1.50	2.8		6,863.75	6	242	28.40	232
1920	2,132.34	58,634	170	29	1.04	3.6		1,611.37	60,494	75	67	1.79	2.7		9,129.99	10	308	29.64	255
1921	2,340.28	69,826	179	32	1.09	3.3		1,928.84	85,482	83	86	1.94	2.2		12,919.71	10	446	29.87	272
1922	2,630.39	80,478	203	35	1.15	3.2		2,631.95	103,369	88	100	2.55	2.5		14,602.84	12	542	26.94	303
1923	2,917.04	99,920	225	37	1.08	3.0		2,637.05	116,154	86	127	2.89	2.3		16,144.66	12	560	28.87	323
1924	3,079.32	113,833	230	41	1.12	2.7		2,728.18	127,557	89	121	2.58	2.1		20,923.64	12	876	24.13	331

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Hamilton—																				
	1913	34,451.95	862,937	5,117	....	....	3.9	8+25	25,453.99	628,471	924	....	....	4.1	8	47,415.58	209	.....	.....	6,250
	1914	74,668.38	1,856,627	8,404	23	92	4.0		35,125.57	1,309,863	1,375	95	2.55	3.4		70,665.43	337	.....	.....	10,116
	1915	92,207.60	2,514,104	10,595	23	81	3.7		34,633.16	1,840,920	1,434	109	2.06	1.9		84,789.71	406	.....	.....	12,435
	1916	108,137.22	3,625,059	12,423	26	78	3.0		36,126.03	2,085,601	1,546	116	2.02	1.8		115,224.78	464	.....	.....	14,433
	1917	135,224.12	5,276,696	14,340	32	84	2.6		36,740.19	2,426,174	1,668	126	1.91	1.5		137,249.87	526	8,010	17.13	16,534
	1918	157,020.32	6,582,496	15,421	36	87	2.3		37,154.72	2,467,464	1,664	123	1.85	1.5		172,313.53	523	11,673	14.76	17,608
	1919	187,079.25	8,236,029	17,652	39	88	2.3		44,372.46	3,501,915	1,826	160	2.02	1.3		198,180.83	589	14,007	12.79	20,067
	1920	194,103.14	8,958,561	18,195	41	94	2.3		44,501.23	3,861,584	1,831	176	2.02	1.1		248,270.75	598	18,721	13.26	20,624
	1921	237,348.81	11,042,726	19,822	46	1.00	2.1		53,217.08	4,432,935	2,021	183	2.20	1.2		222,378.34	629	16,312	13.63	22,472
	1922	277,025.34	14,747,340	21,620	59	1.11	1.9		63,683.93	4,982,377	2,243	195	2.49	1.3		272,417.09	678	18,800	14.49	24,541
	1923	356,342.84	20,527,886	24,543	70	1.21	1.7		94,431.49	6,348,028	2,564	206	3.07	1.5		323,465.87	708	21,662	14.93	27,815
	1924	389,531.34	24,411,719	24,556	83	1.32	1.7		111,271.35	7,030,011	2,630	226	3.57	1.6		266,032.24	703	16,586	16.04	27,889
Hanover—																				
	1918	3,981.55	29,694	335	....	....	....	12.5	3,403.10	47,384	92	....	....	....	12.5	8,034.96	9	169	.....	436
	1919	4,708.40	83,594	337	21	1.16	5.6		3,023.83	56,924	97	49	2.60	5.3		14,737.24	10	413	35.68	444
	1920	6,599.51	123,161	435	24	1.26	5.3		3,852.40	76,626	92	53	3.49	6.5		16,954.80	14	604	28.07	541
	1921	8,978.84	191,292	467	34	1.60	4.7		4,807.51	83,610	110	63	3.64	5.7		39,475.98	14	1,162	33.97	591
	1922	10,616.67	237,998	523	40	1.79	4.5		5,168.56	99,024	108	76	3.95	5.2		45,903.15	16	1,505	30.50	647
	1923	11,073.20	320,410	564	49	1.70	3.5		5,016.69	127,184	104	100	4.01	4.0		47,046.40	17	1,477	31.85	685
	1924	10,527.70	384,635	608	55	1.49	2.7		4,960.87	141,660	106	112	3.94	3.5		35,818.53	16	1,176	30.46	730
Harriston—																				
	1917	1,556.49	18,184	132	12	98	8.6		1,935.38	21,868	68	27	2.37	8.8	10	2,686.93	6	78	34.45	206

1918	1,774.96	21,205	148	12	1.05	8.3	10	1,277.37	21,281	67	26	1.57	6.0		2,663.69	5	85	31.33	220
1919	2,063.50	28,480	175	14	1.04	7.4		1,828.60	25,227	76	28	2.01	7.2		4,394.24	10	136	32.31	261
1920	2,809.01	40,199	202	17	1.16	7.0		2,377.90	35,117	78	37	2.54	6.8		9,709.58	9	240	40.46	289
1921	3,412.75	51,821	221	19	1.29	6.6		2,498.35	46,413	78	50	2.67	5.4		8,326.78	7	239	34.84	306
1922	3,517.32	57,614	232	21	1.29	6.1		2,504.69	37,531	79	40	2.64	6.7		7,309.26	9	204	35.83	320
1923	3,762.07	70,916	245	24	1.27	5.3		2,633.19	54,860	88	51	2.49	4.7		7,257.36	9	202	35.92	342
1924	3,944.02	86,456	265	28	1.29	4.6		2,869.88	61,379	85	59	2.78	4.7		7,968.13	10	216	36.89	360
Harrow—(14 months)																				
1924	4,267.96	.....	145	....	....	....		3,542.79	.....	55	....	....	....		3,426.58	8	.....	.....	208
Havelock—																				
1922	4,476.92	65,021	262	21	1.42	6.9		1,429.97	16,779	62	24	1.92	8.5		136.43	1	10	27.29	325
1923	4,870.76	68,772	266	21	1.52	7.0		1,548.84	20,887	62	28	2.06	7.4		451.55	1	20	22.57	329
1924	4,754.16	64,660	261	10	1.50	7.5		1,282.03	20,186	51	30	1.89	6.3		2,033.48	2	78	26.07	314
Hensall—																				
1917	1,038.57	10,872	89	11	1.06	9.6	12+20	610.79	7,046	36	18	1.54	8.7	12+20	81.39	2	.....	....	127
1918	1,226.25	11,323	105	9	96	10.8		661.21	5,792	40	12	1.45	11.4		1,729.36	5	57	30.34	150
1919	1,602.39	19,924	116	14	1.07	8.0		886.86	10,657	43	21	1.72	8.3		2,703.95	6	127	21.29	165
1920	1,864.17	23,805	120	16	1.29	7.8		1,083.69	11,877	43	23	2.10	9.1		1,776.05	6	115	15.44	169
1921	2,099.20	25,997	121	18	1.45	8.1		1,391.61	14,850	44	28	2.64	9.4		1,096.52	6	70	15.66	171
1922	2,369.38	27,429	137	18	1.53	8.6		1,439.11	23,680	45	44	2.66	6.1		1,220.45	10	81	15.07	192
1923	2,591.25	36,592	141	21	1.53	7.0		1,507.49	15,318	54	23	2.32	9.8		1,611.38	11	97	16.62	205
1924	3,033.50	47,420	149	27	1.74	6.4		1,489.20	17,873	42	31	2.59	8.4		2,833.37	12	119	23.81	203
Hespeler—																				
1913	2,189.00	.....	174	....	....	....	10+15	1,684.75	.....	76	....	....	....	10+15	5,044.30	11	.....	.....	261
1914	2,635.41	34,848	229	14	1.09	7.6		1,934.75	35,979	85	37	2.00	5.4		6,116.27	13	.....	.....	327
1915	2,787.48	39,580	272	11	90	7.0		2,334.15	39,657	90	38	2.22	5.9		9,017.58	14	.....	.....	376
1916	3,011.73	54,239	277	17	92	5.5		2,012.28	44,900	84	43	1.93	4.5		11,177.71	12	.....	.....	273
1917	3,679.79	66,932	312	19	1.04	5.5		2,389.80	53,306	86	52	2.18	4.5		10,166.33	11	394	25.80	409
1918	3,835.53	77,373	336	19	98	4.9		2,024.34	49,635	83	48	1.99	4.0		9,186.68	13	357	25.73	432
1919	4,286.70	92,959	374	21	96	4.6		2,194.16	68,184	84	68	2.18	3.2		6,554.78	11	299	21.92	469
1920	5,626.85	137,540	442	26	1.06	4.1		2,414.32	69,459	89	65	2.26	3.5		8,162.54	13	410	19.90	544
1921	6,648.35	178,741	480	31	1.15	3.7		2,803.97	87,965	95	74	2.46	3.2		7,239.45	17	387	18.71	592
1922	8,011.51	235,605	545	38	1.30	3.4		3,324.81	102,091	103	94	2.79	3.2		10,230.23	19	498	20.54	667
1923	9,891.17	331,625	587	47	1.26	2.2		3,506.05	111,833	102	91	2.86	3.1		13,876.75	18	548	25.28	707
1924	9,866.44	410,632	611	57	1.37	2.4		3,650.37	132,883	107	105	2.90	2.8		16,726.28	18	605	27.81	736

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Highgate—																			
1917	416.49	4,447	41	9	85	9.4	None	467.76	4,373	21	17	1.86	10.7	None	.....	1	.....	.....	63
1918	456.79	5,342	45	10	88	8.5		502.27	4,880	25	17	1.81	10.2		2,556.33	3	76	33.63	73
1919	618.65	6,410	51	11	1.01	9.2		598.12	7,224	29	21	1.72	8.3		2,071.70	3	79	26.22	83
1920	861.91	9,042	59	14	1.22	8.7		738.31	8,264	30	23	2.05	8.9		1,675.67	6	70	23.94	95
1921	1,065.47	11,736	61	16	1.46	9.1		879.37	12,613	31	34	2.36	7.0		1,318.16	6	39	33.80	98
1922	1,092.54	13,118	69	17	1.40	8.3		925.94	12,151	32	32	2.45	7.6		1,606.09	5	70	22.94	106
1923	1,185.36	15,703	82	15	1.20	7.5		930.54	13,785	32	35	2.42	6.7		2,032.28	5	65	31.26	119
1924	1,236.81	19,960	84	20	1.24	6.2		915.45	17,200	34	43	2.31	5.4		1,710.31	5	56	30.54	123
Holstein—																			
1917	238.48	2,366	26	8	86	10.1	None	209.74	2,672	15	15	1.17	7.9	None	.....	....	.....	.....	41
1918	256.54	1,957	27	6	80	13.1		263.55	2,505	16	13	1.41	10.5		.....	....	.....	.....	43
1919	308.37	2,899	28	9	92	10.6		228.57	3,055	18	14	1.06	7.5		752.37	1	27	27.87	47
1920	459.38	5,368	29	16	1.32	8.5		405.80	2,883	18	13	1.88	14.1		109.47	1	7	15.63	48
1921	510.16	3,864	27	12	1.57	13.2		472.86	2,940	18	14	2.19	15.6		215.76	1	7	30.82	46
1922	653.43	3,318	32	10	1.81	18.1		610.58	3,773	20	16	2.54	15.9		172.68	1	7	24.67	53
1923	686.19	4,489	33	11	1.73	15.2		672.39	5,067	21	20	2.66	13.2		154.63	1	7	22.09	55
1924	687.38	5,444	37	13	1.64	12.6		590.92	3,883	23	15	2.24	14.9		208.57	1	7	27.81	61
Humberstone—(2 months only)																			
1924	585.09	.....	.....	.....	.....	.....		359.97	.....	.....	.....	.....	.....		155.47	....	.....	.....	.....
Huntsville—																			
1917	3,597.74	.....	270	.....	.....	.....	10	1,265.03	.....	82	.....	.....	.....	10	13,569.75	3	.....	.....	355
1918	3,614.59	41,768	272	12	1.11	8.6		1,802.91	31,142	83	31	1.82	5.7		13,881.58	3	.....	.....	358
1919	4,899.77	97,860	276	30	1.50	5.0		1,862.04	52,361	66	66	2.35	3.5		14,605.94	7	.....	.....	349

1920	6,953.49	141,862	335	35	1.73	4.9		3,233.63	57,880	93	52	2.89	5.6		15,311.98	6	832	18.40	434
1921	8,380.90	140,012	339	35	2.07	5.9		4,325.78	63,948	96	56	3.80	6.8		14,445.74	7	883	16.36	442
1922	8,645.00	151,560	384	33	1.88	5.7		4,920.30	73,504	98	63	4.18	6.7		14,359.07	6	883	16.26	488
1923	9,446.17	226,310	425	47	1.95	4.2		5,446.41	74,926	98	63	4.63	7.2		14,838.91	8	888	16.71	531
1924	8,783.84	205,239	440	40	1.69	4.2		4,903.33	81,648	100	69	4.13	6.0		14,862.01	8	912	16.28	548
Ingersoll—																				
1912	3,073.73	.....	220	.....	.....	.....	8+25	6,648.28	.....	142	.....	.....	.....	8+25	14,430.66	38	.....	.....	400
1913	3,595.03	43,406	278	14	1.20	8.3		6,048.51	81,724	170	44	3.23	7.4		15,293.44	44	.....	.....	492
1914	5,085.32	68,342	416	12	1.22	7.5		6,359.72	106,689	194	46	2.32	5.9		12,818.27	48	.....	.....	658
1915	5,480.52	102,537	497	19	1.00	5.3		5,716.91	139,428	197	60	2.46	4.1		16,251.18	52	.....	.....	746
1916	6,857.94	127,449	590	20	1.05	5.4		6,540.51	176,757	206	73	2.70	3.7		20,380.90	51	.....	.....	847
1917	7,465.96	152,188	679	20	98	4.9		6,617.53	194,927	196	81	2.74	3.3		21,747.80	53	967	22.49	928
1918	7,622.97	160,226	716	19	91	4.7		5,560.92	164,341	187	71	2.42	3.3		21,413.08	45	994	21.54	948
1919	9,214.11	201,357	809	21	95	4.6		6,229.81	196,142	200	82	2.60	3.2		22,036.72	50	1,123	19.62	1,059
1920	11,307.12	319,520	936	28	1.01	3.5		6,419.44	267,649	220	101	2.43	2.4		23,666.00	55	1,289	18.35	1,211
1921	12,913.37	499,331	1,016	41	1.06	2.6		7,368.55	320,687	225	119	2.71	2.3		20,636.08	54	1,254	16.46	1,295
1922	16,254.07	732,590	1,090	58	1.28	2.2		8,918.23	390,485	232	142	3.25	2.3		21,449.98	52	1,197	17.92	1,374
1923	19,687.29	1,060,450	1,159	76	1.42	1.8		9,892.68	478,115	231	172	3.57	2.1		25,377.73	52	1,253	20.25	1,442
1924	23,120.72	1,251,240	1,261	86	1.59	1.8		10,499.86	477,840	248	166	3.65	2.2		24,924.38	50	1,161	21.47	1,559
Jarvis—(9 months)																				
1924	728.35	.....	51	.....	.....	.....		837.73	.....	31	.....	.....	.....		3,003.12	3	.....	.....	85
Kemptville—																				
1922	5,087.81	78,365	206	32	2.06	6.5		5,787.86	49,112	77	53	6.26	11.8		1,764.22	4	59	29.90	287
1923	5,646.92	83,084	224	30	2.10	6.7		6,175.07	92,936	70	111	7.35	6.6		2,516.99	6	75	33.55	300
1924	4,400.39	67,687	229	25	1.62	6.5		5,048.09	99,606	68	120	6.10	5.1		3,676.29	6	130	28.28	303
Kincardine—																				
1922	6,461.15	103,210	344	25	1.56	6.2		4,057.97	44,142	113	32	2.09	9.2		2,950.97	12	127	23.24	469
1923	8,953.31	206,333	378	45	1.97	4.3		4,829.19	37,720	103	30	3.90	12.8		6,007.67	17	187	32.12	498
1924	9,470.40	177,013	399	38	2.03	5.3		4,988.33	62,131	103	50	4.04	8.1		6,911.53	13	239	28.91	515
Kingston —																				
1918	27,760.31	396,512	1,873	.....	.....	.....	10	45,743.73	686,846	685	.....	.....	.....	10	32,025.98	104	.....	.....	2,662
1919	32,247.30	537,657	2,166	21	1.24	6.0		49,268.27	966,250	759	106	5.41	5.1		42,710.51	112	1,576	27.11	3,037
1920	36,308.98	751,367	2,677	23	1.13	4.8		47,611.14	1,167,246	772	126	5.14	4.1		40,763.23	115	1,818	22.42	3,564
1921	45,106.18	1,044,514	3,122	28	1.20	4.3		49,129.35	1,229,740	802	128	5.11	4.0		45,835.78	124	2,295	19.97	4,047
1922	57,519.97	1,435,616	3,498	36	1.45	4.0		58,501.36	1,331,863	787	139	6.14	4.4		55,428.85	131	2,808	19.74	4,416
1923	65,725.36	1,623,808	3,917	34	1.39	4.0		60,376.47	1,526,887	832	152	6.04	3.9		48,959.97	133	2,349	20.84	4,882
1924	74,607.81	2,094,017	4,226	43	1.53	3.6		61,256.74	1,811,918	854	179	6.05	3.4		51,240.56	138	2,575	19.90	5,218
Kingsville—(14 months)																				
1924	14,471.65	.....	539	.....	.....	.....		10,878.69	.....	150	.....	.....	.....		6,031.06	11	.....	.....	700

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Kirkfield—																			
1920	78.91	.....	20	....	....	....	None	320.95	.....	5	....	....	....	None	.....	1	.....	.....	26
1921	318.70	4,046	21	16	1.26	7.9		705.46	11,494	16	60	3.67	6.1		.....	....	.....	.....	37
1922	495.95	5,970	22	23	1.88	8.3		891.31	15,590	15	84	4.79	5.7		560.90	1	20	28.05	38
1923	450.84	4,343	22	16	1.70	10.4		925.77	11,428	17	56	4.53	8.1		514.85	1	20	25.74	40
1924	451.45	4,574	23	16	1.27	8.0		920.92	11,820	18	55	4.26	7.7		439.81	1	22	19.72	42
Kitchener—																			
1912	14,585.02	.....	1,022	....	....	....	11+25	19,080.32	.....	422	....	....	....	11+25	28,654.23	105	.....	.....	1,549
1913	15,291.37	.....	1,291	....	1.10	....		19,548.91	.....	470	....	3.65	....		35,655.90	127	.....	.....	1,888
1914	17,757.08	359,307	1,694	20	99	4.9		19,549.45	562,630	519	95	3.29	3.5		49,173.17	130	.....	.....	2,343
1915	19,108.60	494,725	2,032	22	85	3.9		16,807.15	579,303	546	91	2.63	2.9		54,732.50	138	.....	.....	2,716
1916	20,876.63	582,754	2,407	22	79	3.6		17,323.67	801,789	543	123	2.65	2.2		62,436.31	147	.....	.....	3,097
1917	24,051.18	748,390	2,712	24	78	3.2		17,494.18	866,798	577	129	2.60	2.2		84,818.46	157	4,012	21.14	3,446
1918	26,810.70	860,230	2,822	25	80	3.1		17,033.78	835,734	547	123	2.52	2.0		93,422.21	155	4,621	20.23	3,524
1919	31,643.49	1,108,883	3,251	29	81	2.8		20,095.87	1,193,095	586	170	2.87	1.7		112,988.87	167	5,791	19.51	4,004
1920	39,506.53	1,513,601	3,524	36	93	2.6		25,744.25	1,474,127	611	201	3.51	1.7		143,025.34	179	7,083	20.19	4,314
1921	48,095.22	2,006,311	3,740	45	1.07	2.4		32,306.38	1,762,746	615	239	4.39	1.8		124,233.93	182	7,483	16.60	4,537
1922	59,793.35	3,424,611	4,297	71	1.24	1.7		41,788.58	2,115,246	663	276	5.45	1.9		151,234.90	212	8,051	18.78	5,172
1923	83,773.70	5,004,505	4,619	90	1.51	1.6		45,887.85	2,692,800	687	327	5.56	1.7		176,598.52	223	9,053	19.51	5,529
1924	99,430.08	6,495,430	4,895	114	1.74	1.5		52,442.55	3,107,263	739	363	6.13	1.7		181,645.64	225	9,147	19.86	5,859
Lakefield—																			
1920	571.45	.....	130	....	....	....	Flat	336.69	.....	62	....	....	....	Flat	1,328.30	4	.....	.....	196
1921	2,003.69	29,135	170	14	98	6.9		2,342.58	.....	56	....	....	....		3,134.24	6	100	31.34	232

1922	2,765.70	42,999	183	20	1.30	6.4		2,694.98	40,417	66	55	3.68	6.6		1,992.23	2	59	33.76	251
1914	4,371.89	63,848	198	26	1.84	6.8		3,170.08	51,482	71	60	3.72	6.1		2,603.43	4	79	32.95	273
1924	3,964.22	65,889	214	27	1.60	5.9		3,349.58	44,803	71	52	3.93	7.4		2,172.03	3	65	33.42	288
Lambeth—																				
1915	344.47	2,991	49	.....		11.5	None	119.00	1,042	9	.....		11.4	None	559.82	1	.....	.....	59
1916	575.65	6,880	54	11	91	8.4		208.96	.....	13	.....	1.58	8.3		249.36	1	.....	.....	68
1917	721.51	7,655	65	11	1.04	9.4		252.56	2,577	13	16	1.62	9.8		182.50	1	.....	.....	79
1918	833.23	9,978	63	13	1.08	8.3		208.28	1,976	11	13	1.44	10.5		392.22	1	5	.....	75
1919	935.30	10,761	75	12	1.04	8.7		289.64	2,701	16	14	1.51	10.7		309.87	2	35	.....	93
1920	1,242.88	14,627	72	18	1.55	8.5		339.28	3,179	14	19	2.02	10.7		312.00	2	12	26.00	88
1921	1,616.48	18,667	86	18	1.57	8.6		414.56	4,341	22	16	1.57	9.5		305.58	2	35	.....	110
1922	1,931.32	28,023	103	25	1.69	6.9		525.13	5,298	22	20	1.99	9.9		326.27	2	20	16.31	127
1923	2,521.75	.....	.....	.....	.....	.....		613.91	.....	.....	.....	.....	.....		345.37	.....	.....	.....	.....
1924	2,629.81	63,306	109	48	2.01	4.2		603.59	9,178	16	48	3.14	6.5		331.53	2	.....	.....	127
Lanark—																				
1922	1,735.71	17,837	81	17	1.78	9.7		1,547.66	10,391	27	32	4.78	14.9		109.71	2	6	18.29	110
1923	1,966.24	20,936	82	21	1.98	9.3		1,190.69	8,486	29	34	3.42	14.1		138.13	2	8	17.26	113
1924	1,805.02	16,636	82	17	1.83	10.8		1,201.76	7,117	27	21	3.58	17.0		114.49	2	8	14.31	111
Lancaster—																				
1922	1,230.64	11,182	54	17	1.90	11.0		971.84	7,316	23	26	3.52	13.3		.....	.....	.....	.....	77
1923	1,557.48	14,156	70	16	1.85	11.0		951.36	6,984	22	26	3.60	13.6		78.34	1	.....	.....	93
1924	1,721.60	16,759	67	20	2.11	10.5		1,201.36	10,755	27	36	4.00	11.1		71.20	1	2	33.90	95
Leamington—(14 months)																				
1924	24,190.62	.....	915	.....	.....	.....		17,782.24	.....	182	.....	.....	.....		7,666.61	22	.....	.....	1,119
Listowel—																				
1917	2,500.80	54,842	243	19	86	4.6	10	3,168.19	51,233	125	34	2.11	6.2	10	3,385.58	12	112	30.23	380
1918	3,820.77	65,119	256	21	1.27	5.8		2,820.74	58,248	128	38	1.85	4.8		7,180.07	13	233	30.81	397
1919	4,311.53	89,975	332	23	1.08	4.8		2,971.08	71,343	135	44	1.91	4.2		10,922.17	18	281	38.86	485
1920	5,657.29	137,168	377	30	1.25	4.1		3,884.08	102,600	132	65	2.62	4.0		13,143.78	20	363	36.21	529
1921	8,190.77	214,353	458	39	1.49	3.8		4,700.32	141,059	142	83	2.76	3.3		12,982.05	18	382	33.98	618
1922	9,584.04	250,128	495	44	1.67	3.8		5,702.40	138,475	141	82	3.35	4.1		11,307.49	19	357	31.67	655
1923	10,337.16	308,432	540	47	1.74	3.3		5,658.00	143,711	143	83	3.29	3.9		11,003.39	23	366	30.06	706
1924	9,201.01	319,065	570	57	1.38	2.4		4,719.75	159,775	140	94	2.78	3.0		9,549.15	20	333	28.68	730

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
†London—																			
1912	28,196.62	.....	3,851	.....	.....	.....	9+25	28,527.44	.....	792	.....	.....	.....	9+25	52,633.00	158	.....	.....	4,801
1913	41,932.42	920,000	5,201	17	77	4.5		39,256.07	1,350,000	1,007	125	3.63	3.0		79,758.96	198	.....	.....	5,406
1914	57,473.08	1,192,000	6,299	18	83	4.8		47,593.44	1,580,000	1,075	127	3.81	3.0		130,936.35	249	.....	.....	7,649
1915	57,184.75	1,732,435	7,326	21	70	3.3		43,751.37	1,452,896	1,046	137	3.44	3.0		148,567.23	271	.....	.....	8,643
1916	17,146.90	2,378,144	8,282	25	76	2.9		48,747.74	1,930,269	1,129	147	....	2.5		180,204.33	295	.....	.....	9,706
1917	86,454.36	3,288,286	9,036	31	83	2.6		52,511.01	2,277,566	1,261	159	3.66	2.4		181,973.61	†328	7,264	22.14	10,625
1918	99,240.58	3,855,134	10,703	32	83	2.5		52,593.28	2,584,904	1,699	143	2.96	2.0		193,686.30	†418	10,261	18.87	12,820
1919	118,188.27	4,885,144	11,495	28	86	2.4		67,190.85	3,524,793	1,831	160	3.06	1.9		195,180.40	467	9,491	20.56	13,793
1920	143,963.71	6,609,361	12,386	44	97	2.2		76,450.76	4,287,591	1,979	180	3.30	1.8		211,081.19	513	11,171	18.90	14,878
1921	185,949.18	9,492,585	13,117	60	1.18	1.9		92,874.24	5,533,748	1,785	258	4.38	1.7		245,447.07	466	9,761	25.14	15,368
1922	217,828.22	11,996,050	13,993	74	1.34	1.8		99,302.57	6,000,287	1,872	273	4.53	1.7		269,970.82	490	11,915	22.66	16,355
1923	267,105.90	15,974,734	14,953	89	1.48	1.6		111,888.47	6,706,869	1,881	297	4.95	1.6		331,832.34	545	13,724	24.17	17,379
1924	278,264.74	17,069,632	14,957	95	1.55	1.6		115,523.61	6,934,680	1,907	305	5.08	1.7		307,441.27	493	14,957	20.55	17,357
London Twp.—																			
1924	6,520.43	.....	226	....	....	....		748.14	.....	6	....	....	....		258.11	1	.....	.....	233
Louth Twp.—																			
1918	.....	.....	24	....	....	....	None	.....	.....	.....	.....	.....	.....	None	.....	....	.....	.....	24
1919	.....	.....	30	....	....	....		.....	.....	.....	.....	.....	.....		.....	....	.....	.....	30
1920	.....	.....	46	....	....	....		.....	.....	.....	.....	.....	.....		.....	....	.....	.....	46
1921	.....	.....	51	....	....	....		.....	.....	.....	.....	.....	.....		.....	....	.....	.....	51
1922	808.76	.....	.....	....	....	....		.....	.....	.....	.....	.....	.....		.....	....	.....	.....	.....
1923	941.17	.....	.....	....	....	....		.....	.....	.....	.....	.....	.....		.....	....	.....	.....	.....
1924	888.15	.....	56	....	....	....		.....	.....	.....	.....	.....	.....		.....	....	.....	.....	56

Lucan—																				
1915	824.07	.....	87	.....	.....	.....	None	687.37	.....	39	.....	.....	.....	None	18.66	3	.....	.....	129
1916	1,124.73	12,047	98	11	1.00	9.3		857.11	8,370	42	17	1.78	10.2		156.67	7	.....	.....	147
1917	1,283.01	16,701	103	14	1.07	7.7		870.97	7,243	39	15	1.82	12.0		2,756.92	10	90	30.63	142
1918	1,309.20	15,264	109	12	1.03	8.5		885.28	11,739	38	25	1.91	7.5		5,650.56	8	133	32.48	155
1919	1,566.54	26,105	115	19	1.14	6.0		921.25	14,136	39	97	1.97	6.5		5,766.69	9	140	41.19	163
1920	1,854.20	43,863	127	29	1.22	4.2		885.18	17,248	41	35	1.80	5.1		6,602.32	10	208	31.74	178
1921	2,343.88	69,421	135	43	1.45	3.4		1,025.25	21,191	40	44	2.14	4.8		7,368.90	10	213	34.59	185
1922	2,737.74	71,976	150	42	1.59	3.8		1,081.12	16,774	38	36	2.31	6.4		5,829.91	9	168	34.70	197
1923	3,414.42	82,475	153	44	1.85	4.1		1,062.78	16,865	39	36	2.27	6.3		2,687.51	7	87	30.89	199
1924	3,122.94	102,646	155	55	1.69	3.1		997.64	20,575	39	44	2.14	4.9		2,344.64	7	84	27.91	201
Lucknow—																				
1922	2,679.21	26,031	137	16	1.63	10.2		2,527.54	20,145	66	25	3.19	12.5		2,025.62	1	50	40.51	204
1923	3,135.27	32,900	155	17	1.68	9.5		2,605.21	16,610	69	20	3.14	15.6		1,878.04	2	56	33.53	226
1924	3,539.73	44,557	172	23	1.81	7.9		2,831.76	31,160	70	37	3.37	9.1		2,193.75	2	60	36.77	244
Lynden —																				
1916	254.76	3,500	24	.....	.....	7.3	None	227.57	4,430	10	.....	.....	5.1	None	650.38	1	.....	.....	35
1917	272.49	3,498	24	.....	.....	7.7		213.11	3,576	11	.....	.....	5.9		2,912.96	1	84	34.68	36
1918	304.17	4,971	25	17	1.35	6.1		231.50	5,914	11	44	1.75	3.9		2,770.26	1	76	36.45	37
1919	444.75	7,553	47	13	79	5.9		347.65	9,897	16	52	1.81	3.5		3,291.51	1	85	38.27	64
1920	897.94	13,406	51	22	1.47	6.7		435.63	10,185	16	53	2.27	4.3		3,408.62	1	86	39.63	68
1921	1,191.73	17,888	57	26	1.74	6.6		478.11	10,462	18	48	2.21	4.6		3,583.76	1	87	41.19	76
1922	1,343.50	24,227	66	32	1.78	5.7		455.15	9,288	15	48	2.37	4.9		3,310.64	1	99	33.44	82
1923	1,449.09	25,334	72	29	1.67	5.7		422.70	9,867	18	45	1.95	4.2		4,051.65	1	112	36.17	91
1924	1,392.88	31,668	72	36	1.61	4.5		496.05	11,752	18	54	2.30	4.2		4,282.78	1	102	41.98	91
Markdale—																				
1917	1,241.47	.....	106	.....	.....	.....	10	1,105.58	.....	68	.....	.....	.....	10	718.89	3	.....	.	177
1918	1,672.90	.....	108	.....	.....	.....		862.43	.....	66	.....	.....	.....		697.58	5	51	.....	179
1919	1,611.23	28,763	124	19	1.08	5.6		937.23	24,481	64	32	1.22	3.8		1,140.94	2	.....	.....	190
1920	2,054.17	29,830	114	19	1.28	6.7		1,321.06	26,180	69	32	1.65	5.0		1,513.24	8	94	16.09	191
1921	2,496.08	48,407	158	26	1.32	5.1		1,550.66	25,982	66	33	1.96	6.0		1,414.47	9	92	15.37	233
1922	2,623.46	48,276	149	27	1.47	5.5		1,695.41	30,600	75	34	2.02	6.0		1,172.56	10	88	13.32	234
1923	2,516.70	54,613	153	29	1.37	4.6		1,872.20	42,302	72	48	2.16	4.4		928.68	9	64	14.51	234
1924	2,584.59	60,239	157	32	1.39	4.3		1,591.52	37,168	71	44	1.87	4.2		1,365.48	9	80	17.07	237
Markham—																				
1920	1,735.33	.....	130	.....	.....	.....	10+25	790.25	.....	33	.....	.....	.....	10+25	577.79	4	35	.....	167
1921	3,263.60	27,616	169	14	1.61	11.8		1,303.84	9,248	42	19	2.59	14.1		2,588.67	6	45	57.53	247
1922	3,116.38	38,147	189	12	1.45	8.2		1,325.79	11,837	45	23	2.57	11.2		2,555.90	6	68	37.59	240
1923	3,487.96	44,059	194	18	1.49	7.9		1,236.62	15,302	49	26	2.10	8.1		2,937.14	5	72	40.79	248
1924	3,515.80	58,464	212	24	1.44	6.0		1,631.67	20,896	48	36	2.83	7.8		2,848.09	6	70	40.69	266

† London and Port Stanley Railway and London Street Railway revenue excluded.

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service						Commercial light service						Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Marmora—																			
1922	2,150.59	19,097	110	14	1.63	11.2		1,609.85	12,939	43	25	3.12	12.4		159.42	3	8	19.93	156
1923	2,026.81	24,060	146	14	1.16	8.4		1,294.90	15,191	43	29	2.50	8.5		260.08	4	15	17.33	193
1924	2,116.86	28,051	131	17	1.27	7.5		1,268.52	18,400	44	35	2.43	7.0		216.93	4	15	14.46	179
Martintown—																			
1922	514.19	6,150	25	21	1.71	8.3		452.72	4,293	11	33	3.43	10.5		.....	....	.....	.....	36
1923	571.65	6,480	24	22	1.98	8.8		433.07	3,869	12	26	3.00	11.1		.....	....	.....	.....	36
1924	687.35	6,596	28	21	2.20	10.5		538.33	4,292	13	28	3.45	12.3		.....	....	.....	.....	41
Maxville—																			
1922	2,003.68	21,472	86	21	1.94	9.3		2,079.24	20,860	58	30	2.99	9.9		507.53	2	41	12.38	146
1923	2,140.40	20,550	104	16	1.71	10.4		2,222.09	24,906	47	44	3.93	8.7		855.46	4	33	25.92	155
1924	2,480.65	23,184	112	18	1.91	10.6		2,115.84	26,113	43	48	3.92	8.2		1,278.82	2	34	37.61	157
Meaford—(16 months)																			
1924	13,042.58	.....	493	....	....	....		9,229.46	.....	121	....	....	....		3,750.41	11	.....	.....	625
Merlin—																			
1924	1,846.42	25,143	86	24	1.79	7.5		1,178.25	14,503	30	40	3.27	8.2		4,301.85	3	87	49.44	119
Merritton—																			
1921	6,010.43	185,000	603	24	83	3.2	Flat	1,238.58	65,121	58	94	1.78	1.9	Flat	3,203.78	5	156	20.54	666

1922	6,163.42	241,041	623	33	84	2.5		1,519.78	66,864	58	96	2.18	2.3		2,977.95	5	143	20.82	686
1923	7,141.86	465,670	580	67	1.02	1.5		1,885.15	119,120	55	195	2.85	1.5		4,668.90	4	251	18.60	639
1924	7,907.99	444,615	590	63	1.13	1.8		1,667.74	56,494	55	86	2.53	2.9		9,594.88	4	427	22.47	649
Midland—																				
1912	5,878.05	.....	420	....	....	....	9	5,878.05	.....	165	....	....	....	9	3,188.03	18	.....	.....	603
1913	6,095.11	88,228	491	16	1.11	6.9		6,104.16	118,267	172	58	3.01	5.1		5,700.22	25	.....	.....	688
1914	6,941.07	127,397	621	19	1.06	5.5		5,084.06	117,741	176	56	2.44	4.3		6,484.43	32	.....	.....	829
1915	6,580.45	199,257	689	25	84	3.3		4,462.54	97,300	188	45	2.05	4.6		10,229.52	39	.....	.....	916
1916	7,145.74	180,735	732	21	83	4.0		4,624.85	186,953	184	84	2.07	2.5		12,262.89	31	.....	.....	947
1917	9,179.72	289,874	822	31	98	3.2		5,651.06	257,868	186	116	2.55	2.2		15,300.91	35	714	21.43	1,043
1918	10,341.29	366,760	937	34	98	2.8		6,149.35	264,733	195	115	2.69	2.3		24,529.03	38	1,160	21.14	1,170
1919	11,542.33	403,890	1,050	32	92	2.8		5,303.02	254,832	237	90	1.86	2.1		22,070.30	34	790	27.93	1,321
1920	16,362.07	584,357	1,091	45	1.25	2.8		7,435.12	275,534	191	120	3.24	1.7		18,060.43	40	1,245	14.51	1,322
1921	20,140.29	808,893	1,171	58	1.43	2.5		8,618.18	360,993	202	149	3.55	2.4		22,464.55	51	1,265	17.76	1,424
1922	22,913.75	837,623	1,163	60	1.64	2.7		9,754.04	475,708	215	191	3.91	2.1		31,240.54	55	1,621	19.27	1,433
1923	22,525.81	976,653	1,336	60	1.40	2.3		9,848.44	374,229	205	152	4.00	2.6		36,590.63	50	1,905	19.20	1,538
1924	21,188.50	1,166,166	1,385	71	1.30	1.8		8,687.61	520,195	211	208	3.44	1.7		68,222.92	55	2,404	28.38	1,651
Milton—																				
1913	1,149.28	.....	110	....	....	....	10	1,212.26	.....	74	....	....	....	10	6,462.38	5	.....	....	189
1914	1,961.22	25,649	150	19	1.51	7.6		2,226.80	41,015	79	44	2.43	5.4		11,325.61	6	.....	.....	235
1915	1,981.80	28,900	170	15	1.03	6.8		1,900.98	41,520	80	44	2.00	4.6		5,364.29	7	.....	.....	257
1916	2,219.28	36,573	197	16	1.01	6.3		1,892.21	44,445	84	45	1.93	4.3		10,428.79	6	.....	....	287
1917	2,528.88	50,695	174	24	1.11	5.0		1,863.60	34,859	70	44	2.21	5.4		7,968.76	6	309	25.79	250
1918	2,852.66	64,485	227	27	1.18	4.4		1,759.69	35,451	73	41	2.05	4.9		6,497.73	7	333	19.51	307
1919	3,908.62	149,879	276	45	1.18	2.6		2,041.31	42,493	76	47	2.22	4.8		11,109.72	12	234	47.48	364
1920	4,099.80	105,398	289	30	1.16	3.9		2,365.05	60,519	76	66	2.60	3.9		15,142.22	13	733	20.66	378
1921	4,502.81	126,039	315	33	1.19	3.6		2,531.11	61,661	82	58	2.41	4.1		16,596.71	20	702	23.64	417
1922	5,164.20	136,814	314	36	1.37	3.8		2,487.17	62,907	79	66	2.59	3.9		19,667.48	18	939	20.95	411
1923	6,580.38	152,287	338	37	1.62	4.3		2,824.73	87,655	87	84	2.70	3.3		24,467.36	23	1,059	23.10	448
1924	7,524.78	187,893	384	43	1.74	4.0		4,132.06	143,553	88	137	3.94	2.9		27,868.66	24	1,159	24.13	496
Milverton—																				
1917	785.01	11,116	65	14	1.01	7.1	None	1,200.09	17,892	59	25	1.69	6.7	None	2,899.56	4	80	36.24	128
1918	1,007.75	14,464	75	17	1.19	6.9		1,403.46	22,579	65	30	1.88	6.2		7,533.28	5	207	36.39	145
1919	1,230.28	21,554	104	17	99	5.7		1,442.81	29,216	66	38	1.82	4.9		8,897.49	5	267	33.32	175
1920	1,677.24	31,406	131	20	1.07	5.3		1,494.72	36,991	63	49	1.97	4.0		8,687.03	6	272	31.93	200
1921	2,085.42	38,280	152	21	1.14	5.4		1,688.69	46,230	64	60	2.20	3.6		8,207.82	5	280	29.31	221
1922	2,453.16	56,370	182	22	1.22	4.3		1,886.98	47,000	62	62	2.50	4.0		10,109.97	6	306	33.04	250
1923	3,005.94	66,610	177	31	1.41	4.5		2,332.29	59,856	69	72	2.82	3.9		10,006.69	6	305	32.80	252
1924	3,106.06	90,660	190	41	1.41	3.4		2,394.26	50,380	60	64	3.07	4.8		13,416.50	7	358	37.47	257

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Mimico—																			
1913	2,021.06	.....	250	....	....	....		*	.....	*	....	....	....	8+25	795.49	5	.....	.....	255
1914	5,085.16	91,184	462	....	....	5.4	8+25	*	3,462	10	.....	....	5.4		963.64	5	.....	.....	477
1915	5,748.44	105,884	609	17	90	5.4		346.49	6,551	7	40	2.14	5.3		1,042.11	3	.....	.....	619
1916	7,011.08	137,318	621	18	95	5.1		506.44	10,982	31	38	1.70	4.6		1,449.14	8	.....	.....	660
1917	7,400.73	177,916	704	21	93	4.2		883.24	19,361	39	46	2.10	4.6		2,750.59	11	133	20.68	754
1918	7,209.82	202,311	615	25	91	3.5		942.82	24,173	32	56	2.21	3.9		4,357.12	9	195	22.34	656
1919	8,759.21	281,185	703	33	1.04	3.1		1,061.76	29,770	34	73	2.60	3.6		4,189.20	9	192	21.82	746
1920	12,325.03	508,282	841	50	1.22	2.4		1,305.90	43,750	45	81	2.33	2.9		3,896.30	8	189	20.62	894
1921	13,068.97	653,445	927	59	1.17	2.0		2,008.37	75,460	66	95	2.54	2.7		3,823.58	9	209	18.29	1,002
1922	16,083.14	977,153	1,036	89	1.36	1.6		2,452.03	112,580	85	1.25	2.72	2.2		5,259.27	9	262	20.07	1,130
1923	23,008.62	1,467,605	1,194	103	1.60	1.5		3,837.91	171,744	98	1.46	3.26	2.2		6,711.56	11	292	22.90	1,303
1924	28,280.20	1,739,172	1,308	116	1.88	1.6		5,442.68	219,159	112	1.74	4.32	2.5		4,785.29	12	227	21.08	1,432
Mitchell—																			
1912	2,964.48	.....	159	....	....	....	Flat	2,977.08	.....	79	....	....	....	Flat	4,597.03	13	.....	.....	251
1913	2,362.52	.....	179	....	....	....		2,813.92	.....	85	....	....	....		6,160.53	16	.....	.....	270
1914	2,470.29	.....	191	....	....	....		2,712.55	.....	100	....	....	....		3,944.91	16	.....	.....	307
1915	2,379.58	.....	190	....	....	....		2,684.01	.....	95	....	....	....		2,333.08	17	.....	.....	292
1916	2,311.80	33,759	218	14	95	6.8		2,677.35	39,211	103	33	2.25	6.8		3,231.56	21	.....	.....	342
1917	2,572.51	41,022	212	16	1.01	6.3		2,774.59	49,323	104	39	2.22	5.6		4,169.05	22	167	24.96	338
1918	2,730.62	46,956	217	18	1.06	5.8		2,944.34	51,294	102	41	2.38	5.7		4,834.06	22	190	25.44	341
1919	2,816.95	41,556	266	13	88	6.8		3,136.32	51,396	105	41	2.49	6.1		4,869.61	21	196	24.84	392
1920	4,183.47	89,601	298	25	1.17	4.7		3,588.97	77,765	106	61	2.82	4.6		5,798.65	21	224	25.89	425
1921	4,660.66	101,018	330	24	1.18	4.6		3,010.46	72,737	104	58	2.49	4.3		5,542.41	21	228	24.31	455
1922	5,355.08	163,706	362	39	1.29	3.3		3,337.99	81,244	104	65	2.67	4.1		5,701.36	21	232	24.57	487

1923	6,298.13	206,004	375	45	1.39	3.0		3,512.16	95,684	104	76	2.81	3.6		6,388.28	24	247	25.86	503
1924	6,988.37	240,543	393	52	1.52	2.9		3,372.66	98,397	106	78	2.67	3.4		6,133.81	24	246	24.93	523
Moorefield —																			
1918	175.36	.....	16	...	.....	.....	None	217.24	.....	15	...	.....	.....	None	888.57	1	.....	.....	32
1919	341.45	3,507	21	14	1.35	9.7		342.50	2,870	15	16	1.90	11.9		1,292.62	2	40	32.32	38
1920	498.92	5,304	26	17	1.60	9.5		431.99	4,080	17	20	2.12	10.6		1,262.83	2	38	33.23	45
1921	637.19	7,101	26	23	2.04	9.0		540.33	5,310	20	22	2.25	10.2		1,285.41	2	35	36.73	48
1922	712.43	7,465	31	21	2.05	9.5		575.24	5,773	19	25	2.51	10.0		1,368.96	2	38	36.03	52
1923	806.16	9,098	35	21	1.91	8.8		622.67	6,680	17	32	3.10	9.4		1,502.15	2	39	38.51	54
1924	837.08	10,262	44	21	1.74	8.3		683.24	8,162	17	40	3.35	8.4		1,549.91	2	42	36.90	63
Mt. Brydges —																			
1915	333.43	.....	45	...	.....	.....	None	494.02	.....	15	...	.....	.....	None	517.50	1	.....	.....	61
1916	644.75	5,058	55	8	1.07	12.7		170.46	3,106	15	17	95	5.5		760.58	2	.....	.....	72
1917	540.17	6,481	58	9	81	8.3		344.16	3,481	20	17	1.69	9.9		627.07	2	27	23.22	80
1918	601.52	7,323	67	9	80	8.2		312.44	3,396	17	15	1.40	9.1		750.69	1	25	30.02	85
1919	811.17	8,900	64	12	1.06	8.9		324.11	3,051	22	12	1.23	10.6		822.74	1	26	31.64	87
1920	1,130.15	13,440	84	13	1.04	8.4		434.78	2,736	19	12	1.91	15.8		707.73	1	23	30.77	104
1921	1,398.23	12,266	77	13	1.51	11.4		457.24	4,446	20	19	1.91	10.3		836.68	1	18	46.48	91
1922	1,398.02	17,208	89	17	1.40	8.1		540.62	5,800	24	22	2.05	9.3		737.60	1	18	40.98	114
1923	1,610.92	23,240	96	20	1.39	6.9		591.31	7,169	26	23	1.89	8.2		889.39	1	21	42.35	123
1924	1,645.47	31,735	100	28	1.40	5.0		537.95	7,140	25	24	1.79	7.5		935.82	2	24	39.00	127
Mt. Forest —																			
1916	1,967.03	27,337	106	...	.....	7.2	10	2,420.75	39,059	164	...	.....	6.2	10	1,739.79	7	.....	.....	277
1917	2,171.91	40,286	176	23	1.28	5.4		2,556.41	37,914	107	30	1.99	6.7		2,533.40	4	136	19.63	287
1918	2,171.73	32,336	187	14	99	.67		2,419.72	42,176	107	32	1.88	5.7		3,132.19	4	147	21.30	298
1919	2,596.70	43,495	196	19	1.10	6.0		2,809.05	59,310	117	42	2.00	4.7		3,561.63	5	152	23.43	318
1920	2,959.09	48,732	205	20	1.20	6.0		3,625.36	62,877	127	41	2.38	5.8		4,182.42	9	207	20.20	344
1921	4,050.74	66,539	239	23	1.41	6.1		5,279.82	76,899	128	50	3.44	6.9		5,219.42	10	203	25.71	377
1922	4,683.40	74,673	260	25	1.56	6.2		5,965.31	86,502	130	56	3.85	6.9		4,996.49	7	202	24.74	397
1923	4,894.10	87,860	274	26	1.48	5.5		5,472.11	77,866	133	48	3.42	7.0		3,518.14	5	186	18.91	412
1924	4,418.91	104,525	310	30	1.26	4.2		4,680.69	116,304	132	73	2.96	4.1		4,919.83	6	191	25.79	448
Neustadt —																			
1919	419.91	5,586	45	10	78	7.8	12.5	475.59	7,332	24	25	1.65	6.6	12.5	389.93	2	16	24.37	71
1920	813.48	14,425	51	24	1.33	5.6		526.21	8,047	26	26	1.69	6.5		2,656.17	4	88	30.18	81
1921	1,159.34	15,187	55	23	1.76	7.6		737.42	6,222	29	18	2.12	11.8		3,214.94	4	92	34.95	88
1922	1,683.22	.....	61	...	.....	.....		982.18	.....	30	...	.....	.....		7,690.74	4	.....	.....	95
1923	1,388.03	.....	68	...	.....	.....		1,099.61	.....	29	...	.....	.....		5,923.43	5	137	43.23	102
1924	1,542.94	17,591	67	22	1.92	8.7		1,049.23	9,854	30	27	2.89	10.7		5,667.84	5	129	44.11	102

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Newbury—																			
1922	683.98	9,946	43	19	1.34	6.9		543.61	4,973	20	21	2.26	10.9		778.83	1	25	31.15	64
1923	751.02	8,493	44	16	1.42	8.9		529.29	4,478	23	16	1.91	11.8		899.48	1	27	33.31	68
1924	728.47	9,042	48	16	1.32	8.2		583.12	6,169	23	22	2.11	9.6		920.14	1	26	35.39	72
New Hamburg—																			
1912	1,195.08	.....	124	....	....	....	10	1,423.35	.....	63	....	....	....	10	3,369.05	5	.....	.....	194
1913	1,589.21	.....	142	....	....	....		1,890.72	.....	63	....	....	....		5,792.20	8	.....	.....	212
1914	1,779.90	23,010	170	12	89	7.7		1,403.65	19,404	68	25	1.78	7.2		5,209.51	6	.....	.....	243
1915	1,888.04	33,913	187	16	88	4.9		1,273.38	23,041	70	27	1.54	5.5		2,825.57	4	.....	.....	261
1916	1,816.44	37,109	196	16	79	5.5		1,211.25	26,492	70	32	1.39	4.6		1,646.90	4	.....	.....	270
1917	2,052.95	40,407	184	18	93	5.1		1,481.03	34,156	69	41	1.79	4.3		4,299.65	9	188	22.87	262
1918	2,331.00	45,778	192	20	1.03	5.0		1,410.88	40,225	67	49	1.73	3.5		4,784.71	9	220	21.74	268
1919	2,597.55	46,124	208	19	1.04	5.5		1,540.57	40,137	64	52	2.01	3.8		5,517.79	10	244	22.61	282
1920	2,987.68	77,692	222	27	1.12	4.1		1,615.92	37,812	66	48	2.04	4.3		5,613.62	12	240	23.39	300
1921	3,570.31	99,781	231	36	1.29	3.6		1,751.04	44,237	63	59	2.32	4.0		5,253.46	11	259	20.28	305
1922	4,033.81	121,551	222	45	1.49	3.3		2,040.13	53,832	78	64	2.43	3.8		6,732.68	13	279	24.13	313
1923	4,799.76	163,995	268	50	1.49	2.9		2,265.63	50,391	71	59	2.66	4.4		8,565.03	14	309	27.71	353
1924	4,806.71	189,180	291	56	1.43	2.6		2,325.57	80,281	77	90	2.62	2.9		10,101.95	14	354	28.53	382
New Toronto—																			
1914	653.50	11,947	100	....	....	7.0	8+25	.....	.....	4	....	....	7.0	8+25	.....	1	.....	.....	105
1915	1,416.10	19,520	153	....	....	5.5		.....	.....	8	....	....	5.5		2,140.36	2	.....	.....	163
1916	1,571.03	29,162	210	....	....	5.4		143.32	5,956	10	....	....	5.4		9,744.31	4	.....	.....	224
1917	2,451.49	46,080	320	14	77	5.3		566.42	7,680	22	40	2.95	7.4		30,726.27	8	1,554	19.77	350
1918	2,631.82	50,723	400	11	60	5.1		1,113.87	18,968	22	71	4.22	5.8		64,854.19	10	2,689	24.11	432
1919	4,009.94	94,392	473	18	77	4.3		3,143.60	78,720	41	205	8.19	4.0		79,353.15	14	3,250	24.41	528

1920	6,602.26	183,717	537	28	1.02	3.6		2,979.37	99,372	57	169	5.07	3.0		97,272.13	12	4,362	22.30	606
1921	6,731.42	314,718	631	42	89	2.1		3,798.61	199,688	73	256	4.87	1.9		66,294.41	14	3,399	19.50	718
1922	9,039.13	346,958	761	42	1.08	2.6		4,089.35	203,510	87	212	4.26	2.0		43,232.18	15	2,399	18.02	863
1923	13,350.62	620,622	829	63	1.34	2.1		6,176.31	280,063	99	226	5.19	2.2		66,486.92	18	2,795	23.78	946
1924	15,544.79	689,910	886	67	1.51	2.2		6,349.73	279,481	103	231	5.24	2.3		63,764.14	16	2,417	26.38	1,005
Niagara Falls—																			
1916	21,733.29	.....	2,050	....	....	....	3.5	13,259.02	.....	400	....	....	....	Flat	9,613.01	80	.....	.....	2,530
1917	22,566.76	867,639	2,273	31	99	2.6		11,012.51	651,884	405	134	2.27	1.7		18,804.36	55	713	13.49	2,733
1918	26,423.31	882,174	2,447	31	93	2.9		10,692.04	528,376	418	107	2.16	2.0		22,242.65	61	1,480	15.03	2,926
1919	33,221.90	1,419,901	2,648	45	1.05	2.4		12,639.15	899,210	456	164	2.31	1.4		24,686.72	75	1,905	12.96	3,179
1920	46,839.29	2,378,263	2,907	68	1.34	2.0		15,366.26	909,516	488	155	2.62	1.7		28,739.95	86	2,102	13.67	3,481
1921	59,722.54	3,598,610	3,048	99	1.63	1.6		21,208.21	1,376,527	528	217	3.35	1.5		33,220.24	90	2,505	13.26	3,666
1922	72,634.03	4,718,606	3,163	127	1.95	1.5		26,699.31	2,140,826	542	334	4.16	1.2		38,485.41	93	2,687	14.32	3,798
1923	82,424.59	6,132,605	3,329	153	2.06	1.3		30,780.07	2,657,368	546	405	4.69	1.2		52,157.69	87	2,890	18.04	3,962
1924	93,779.71	6,942,792	3,499	169	2.29	1.4		36,889.06	2,701,477	552	410	5.60	1.4		43,760.54	77	2,201	19.88	4,128
Niagara-on-the-Lake—																			
1919	.....	.....	274	....	....	....		.....	.....	58	....	....	....		.....	5	.....	.....	337
1920	5,544.75	.....	275	....	1.68	....		2,796.38	.....	69	....	3.38	....		1,301.68	5	78	16.69	349
1921	5,847.10	.....	306	....	1.60	....		3,291.89	.....	74	....	3.71	....		2,544.90	6	12	21.21	386
1922	5,769.68	156,879	319	42	1.54	3.7		2,777.10	71,474	77	79	3.09	3.7		2,467.05	7	99	24.92	403
1923	5,842.89	190,306	333	47	1.46	3.0		2,505.01	72,382	79	77	2.74	3.5		2,389.42	7	102	23.42	419
1924	5,712.98	202,418	360	48	1.37	2.9		2,387.66	74,075	78	79	2.55	3.2		816.99	9	44	18.56	447
North York Twp.—(13 months)																			
1924	14,797.22	.....	655	....	....	....		1,798.39	.....	37	....	....	....		1,720.29	10	.....	.....	702
Norwich—																			
1912	862.17	.....	128	....	....	....	10+25	674.48	.....	64	....	....	....	10+25	263.93	2	.....	.....	194
1913	1,926.78	28,172	166	15	1.09	6.8		1,162.98	17,917	76	20	1.38	6.5		1,978.55	3	.....	.....	245
1914	2,168.13	35,578	198	16	99	6.2		995.16	20,690	84	22	1.04	6.4		1,893.72	3	.....	.....	285
1915	2,529.91	37,082	228	16	99	6.2		1,075.79	25,880	80	26	1.09	4.2		2,169.31	5	.....	....	313
1916	2,319.58	49,858	254	18	84	4.7		1,168.34	24,909	87	25	1.16	4.7		2,642.97	6	.....	....	327
1917	2,672.38	55,968	244	19	89	4.7		1,198.97	24,854	82	25	1.19	4.8		4,116.38	10	137	30.05	448
1918	3,042.12	87,510	242	30	1.06	3.4		1,064.13	23,559	78	24	1.11	4.5		2,481.63	8	87	28.52	328
1919	3,529.64	101,324	280	30	1.05	3.5		1,566.15	34,149	76	37	1.55	4.5		2,370.22	8	97	24.44	364
1920	4,136.42	118,478	291	34	1.18	3.5		1,915.42	42,434	84	42	1.90	4.5		2,902.47	10	111	26.15	385
1921	4,824.49	155,413	305	42	1.32	3.2		2,235.71	48,524	85	48	2.20	4.6		3,022.99	7	118	25.62	397
1922	5,209.87	161,790	330	43	1.37	3.2		2,436.17	55,865	92	53	2.31	4.4		2,426.59	8	113	21.47	430
1923	5,986.24	176,237	338	43	1.47	3.3		2,756.49	67,221	92	60	2.49	4.1		3,067.52	8	125	24.54	438
1924	5,346.88	222,094	339	55	1.32	2.4		2,739.80	68,404	89	63	2.51	4.0		3,803.89	8	116	32.79	436

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Norwood—																			
1922	2,413.40	36,746	161	19	1.25	6.6		1,627.72	22,199	66	28	2.06	7.3		744.35	4	42	17.72	231
1923	2,871.65	39,980	178	19	1.34	7.1		1,774.20	24,038	70	29	2.11	7.3		1,496.49	3	59	25.35	251
1924	3,028.79	53,015	187	24	1.38	5.7		1,689.45	23,139	70	28	2.01	7.2		1,229.52	2	47	26.16	259
Oil Springs—																			
1918	87.68	.....	18	....	....	....	None	73.85	.....	7	....	....	....	None	2,240.03	2	.....	.....	27
1919	214.44	.....	20	....	....	....		173.97	.....	10	....	....	....		4,151.58	3	.....	.....	33
1920	366.49	.....	20	....	....	....		319.75	.....	12	....	....	....		5,684.03	6	.....	.....	38
1921	701.04	10,587	42	21	1.39	6.6		503.46	6,975	17	34	2.40	7.2		6,970.28	33	177	39.38	92
1922	795.54	12,624	48	23	1.47	6.3		527.91	7,023	21	31	2.32	7.5		12,387.37	35	285	43.46	104
1923	972.72	14,564	49	25	1.65	6.7		644.31	9,540	25	32	2.15	6.7		12,635.26	35	.....	.....	109
1924	947.40	20,970	65	31	1.39	4.5		731.22	11,505	29	35	2.25	6.4		11,511.05	38	300	38.37	132
Omemee—																			
1918	480.37	.....	58	....	....	....	Flat	419.07	.....	23	....	....	....	Flat	54.78	3	.....	.....	84
1919	733.28	10,387	70	12	87	7.0		623.24	9,530	29	24	1.79	7.5		670.27	5	39	17.19	104
1920	999.89	15,708	83	17	1.08	6.4		681.07	10,000	24	32	2.18	6.8		248.29	5	13	19.10	112
1921	1,213.80	22,000	84	22	1.20	5.5		781.01	12,000	30	37	2.29	6.2		2,081.00	6	133	15.65	120
1922	1,543.01	22,778	92	22	1.46	6.8		846.54	13,548	31	38	2.35	6.2		4,269.89	7	147	29.25	130
1923	1,734.41	24,800	106	20	1.36	6.9		882.26	13,500	30	37	2.45	6.5		4,702.80	7	160	29.39	143
1924	1,773.36	36,544	110	28	1.37	4.9		836.43	15,649	33	41	2.21	5.4		3,680.41	7	158	23.29	150
Orangeville—																			
1917	1,641.42	22,895	144	13	95	7.2	10	1,903.38	32,805	82	33	1.93	5.8	10	2,902.60	4	133	22.58	230
1918	1,891.77	30,456	155	17	1.05	6.2		2,081.03	44,300	90	42	2.01	4.6		3,197.89	5	97	32.96	250
1919	2,390.39	39,464	179	19	1.11	6.0		2,352.35	62,441	97	54	2.02	3.8		3,797.70	7	141	26.93	283

1920	2,891.19	49,625	199	21	1.21	5.8		2,852.54	47,302	94	42	2.53	6.0		4,127.67	10	208	19.84	303
1921	3,660.49	63,990	221	24	1.38	5.7		3,707.47	76,793	95	67	3.25	4.8		4,211.74	10	160	26.32	326
1922	4,207.55	75,131	265	26	1.44	5.6		4,231.79	78,433	101	67	3.60	5.4		5,213.52	12	230	22.67	378
1923	5,162.41	101,046	294	29	1.46	5.1		5,015.83	98,303	118	69	3.54	5.1		5,956.94	18	252	23.64	430
1924	5,462.28	110,469	339	29	1.44	5.0		4,456.28	101,759	123	71	3.09	4.4		6,442.37	20	276	23.30	482
Ottawa—																				
1912	62,598.18	.....	5,390	.....	.....	.....	7+8	51,365.91	.....	440	.....	.....	.....	7+8	25,299.94	90	.....	.....	5,920
1913	68,032.27	.....	5,766	.....	1.02	.....		53,438.04	.....	818	.....	7.08	.....		26,978.76	152	.....	.....	6,736
1914	68,767.48	1,376,353	6,342	19	95	5.0		51,769.72	1,061,263	852	106	5.16	4.9		31,748.23	156	.....	.....	7,350
1915	67,441.19	1,767,519	7,338	22	82	3.8		46,636.99	1,501,978	1,060	131	4.07	3.1		32,126.50	140	.....	.....	8,538
1916	72,875.12	2,131,307	7,912	23	80	3.4		42,569.96	1,786,603	1,107	137	3.27	2.4		42,996.39	188	.....	.....	9,207
1917	81,506.24	2,376,141	8,636	24	82	3.4		48,546.77	2,048,160	1,167	150	3.57	2.4		63,173.09	204	3,553	17.72	10,007
1918	88,202.83	3,331,473	9,047	31	82	2.3		50,733.92	2,358,017	1,182	167	3.59	2.1		64,655.78	207	4,743	13.63	10,436
1919	97,402.16	4,825,279	8,976	45	90	2.0		52,187.97	3,235,802	1,212	212	3.59	1.6		63,255.59	205	4,401	14.37	10,393
1920	109,844.13	5,959,360	9,451	53	97	1.8		62,833.70	3,248,561	1,278	212	4.10	1.9		61,681.26	210	4,531	13.61	10,939
1921	131,863.72	8,056,660	9,955	67	1.10	1.6		67,251.51	3,674,286	1,349	227	4.15	1.8		63,333.74	228	4,910	12.90	11,532
1922	154,936.08	11,363,704	10,493	93	1.26	1.4		80,732.27	4,332,772	1,415	261	4.87	1.9		66,739.71	229	5,135	13.00	12,137
1923	185,916.79	16,180,621	11,050	122	1.40	1.1		86,984.66	5,250,246	1,429	306	5.07	1.6		78,535.26	240	5,410	14.52	12,719
1924	201,346.25	18,394,354	11,022	139	1.52	1.1		97,707.78	5,790,680	1,440	336	5.68	1.7		77,792.76	243	5,672	13.72	12,705
Otterville—																				
1917	537.88	.....	42	.....	.....	.....	None	290.37	.....	23	.....	.....	.....	None	47.44	1	.....	.....	66
1918	615.32	7,715	47	14	1.15	7.9		272.50	3,665	22	13	1.01	7.4		912.05	2	22	41.45	71
1919	861.40	11,200	62	15	1.16	7.7		440.31	5,350	15	13	1.93	8.4		982.80	4	26	37.80	81
1920	1,156.08	14,783	70	18	1.38	7.8		648.41	7,818	20	33	2.70	8.3		1,770.64	4	43	41.18	94
1921	1,421.89	15,120	84	15	1.41	9.4		760.43	7,774	17	34	3.34	9.8		1,401.36	4	43	32.59	105
1922	1,446.48	15,950	85	16	1.42	9.1		717.09	7,600	20	35	3.32	9.4		1,388.67	4	43	32.29	109
1923	1,529.99	35,240	98	29	1.30	4.3		718.74	13,680	19	60	3.15	5.2		1,429.60	4	43	33.24	121
1924	1,505.25	45,200	92	40	1.32	3.3		744.13	17,160	26	62	2.70	4.4		1,368.58	4	43	31.83	122
Owen Sound—																				
1916	16,003.61	225,620	1,376	.....	.....	7.1	6.4+15	23,724.21	388,717	435	.....	.....	6.1	6.4+15	13,772.61	83	.....	.....	1,894
1917	15,740.76	266,322	1,438	16	93	5.9		13,809.15	341,361	419	67	2.71	4.1		28,667.22	84	1,176	24.37	1,941
1918	16,071.58	310,256	1,492	17	91	5.1		14,011.58	341,751	403	69	2.84	4.1		32,069.70	84	1,177	27.25	1,979
1919	17,879.28	605,348	1,611	31	93	3.0		13,931.89	521,847	418	104	2.78	2.7		23,289.00	92	1,005	23.17	2,121
1920	21,798.24	719,181	1,861	32	97	3.0		15,160.58	520,485	449	97	2.81	2.9		24,645.87	105	1,231	20.02	2,415
1921	26,511.72	700,833	2,075	28	1.06	3.8		16,442.16	703,759	457	133	3.00	2.2		29,116.14	109	1,403	20.75	2,641
1922	31,744.31	955,010	2,285	35	1.12	3.3		18,851.65	728,910	460	133	3.43	2.6		30,538.65	115	1,567	19.49	2,860
1923	35,771.38	1,245,612	2,410	43	1.24	2.9		19,593.46	869,446	475	153	3.44	2.3		32,189.46	107	1,526	21.09	2,992
1924	33,965.82	1,582,637	2,548	53	1.14	2.1		20,304.15	1,073,154	493	185	3.50	1.9		29,663.77	108	1,385	21.41	3,149
Paisley—																				
1924	3,170.43	22,914	128	15	2.06	13.7		2,223.77	18,052	40	38	4.63	12.2		740.64	2	18	40.47	170

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Palmerston—																				
	1916	6,102.25	.....	151	....	.....	....	Flat	282.57	.....	63	....	.....	....	Flat	.....	1	.....	.....	215
	1917	2,506.76	32,672	171	16	1.22	7.7		2,780.86	51,029	71	60	3.26	5.5		1,225.68	2	57	21.50	244
	1918	2,563.63	33,104	177	11	1.22	7.7		2,729.69	50,847	69	60	3.24	5.3		1,401.26	2	57	24.58	248
	1919	3,253.16	52,780	213	21	1.27	6.2		3,344.29	54,590	75	61	72	6.1		2,161.21	4	85	25.43	292
	1920	4,284.77	102,555	234	36	1.53	4.2		4,036.64	90,508	75	101	4.00	4.5		3,235.10	5	128	25.27	314
	1921	5,035.03	124,636	255	41	1.62	4.0		4,736.84	95,314	80	99	4.93	5.0		4,581.69	6	171	26.79	341
	1922	5,419.45	159,164	277	50	1.70	3.4		4,110.84	93,623	80	98	4.28	4.4		5,679.92	6	165	34.42	363
	1923	5,671.62	214,614	315	56	1.50	2.6		3,681.80	116,053	80	133	3.83	3.2		6,432.56	7	194	33.67	402
	1924	5,407.81	239,785	316	63	1.43	2.3		3,408.02	114,253	77	121	3.62	3.0		5,831.72	7	182	32.04	400
Paris—																				
	1914	4,766.23	65,037	354	....	.....	....	7+10	2,778.09	65,108	142	....	....	4.3	8+20	1,419.90	1	.....	.....	497
	1915	5,071.54	87,239	477	17	1.01	5.8		4,063.03	100,259	150	57	2.32	4.1		6,328.33	4	.....	.....	631
	1916	5,877.57	127,382	552	21	96	4.6		3,805.95	96,750	150	53	2.11	3.9		8,974.66	4	.....	.....	706
	1917	6,620.91	155,986	581	23	98	4.2		4,303.71	105,150	161	56	2.31	4.0		8,828.42	5	416	21.22	747
	1918	7,839.11	155,406	625	21	1.08	5.0		4,339.77	86,904	162	44	2.23	4.9		12,951.24	8	556	23.29	795
	1919	7,447.39	237,276	663	30	94	3.1		4,436.78	90,539	168	45	2.20	4.9		14,226.43	12	579	24.57	843
	1920	7,696.27	237,103	757	26	85	3.2		4,411.23	84,538	182	41	2.02	5.0		16,414.88	13	805	20.39	952
	1921	9,368.93	366,497	875	35	90	2.5		4,532.48	173,264	188	77	2.01	2.6		16,844.82	18	930	18.11	1,081
	1922	11,791.12	518,536	884	49	1.12	2.3		4,670.02	184,961	170	100	2.24	2.2		15,743.55	17	739	21.30	1,071
	1923	14,594.85	781,218	927	70	1.31	1.8		5,202.93	231,434	173	111	2.50	2.2		15,858.96	16	710	22.47	1,116
	1924	16,280.06	917,315	961	81	1.44	1.8		5,994.11	248,086	179	117	2.84	2.4		15,705.45	21	726	21.63	1,161
Parkhill—																				
	1920	1,530.39	.....	120	....	.....	....	10+52	1,106.09	.....	58	....	....	....	10+25	110.15	1	10	.....	179
	1921	3,049.70	29,648	146	17	1.74	10.3		2,243.54	17,506	58	24	3.22	12.8		1,186.35	3	29	40.91	207

1922	3,443.03	36,461	152	20	1.92	9.4		1,974.60	16,919	63	23	2.74	11.1		1,157.39	4	41	28.23	219
1923	3,437.57	47,386	165	23	1.73	7.2		2,028.44	22,551	63	30	2.68	8.9		2,027.21	4	73	27.77	232
1924	3,187.40	59,390	191	28	1.49	5.3		1,872.92	25,884	62	35	2.52	7.2		1,648.57	3	48	34.34	256
Penetang —																			
1912	1,676.26	.....	101	...	...	....	9	3,836.30	.....	87	...	...	....	9	2,207.51	13	.....	.....	201
1913	1,989.80	27,199	128	19	1.44	7.3		4,511.16	58,111	91	55	4.23	7.7		8,775.95	15	.....	.....	234
1914	1,936.73	35,163	153	21	1.15	5.5		3,064.83	66,489	100	58	2.68	4.6		8,001.69	15	.....	.....	268
1915	2,050.69	42,483	174	22	1.04	4.8		2,676.60	78,657	102	65	2.21	3.4		10,048.08	15	.....	.....	291
1916	2,317.37	49,242	189	23	1.06	4.7		2,706.74	83,448	95	71	2.30	3.2		11,650.03	16	.....	.....	290
1917	2,486.82	62,546	199	27	1.07	4.0		2,677.81	80,783	93	72	2.38	3.3		10,234.73	14	476	21.50	306
1918	2,855.29	76,516	215	30	1.15	3.7		2,363.45	71,085	95	63	2.09	3.3		9,701.55	14	350	27.71	324
1919	3,074.74	83,950	263	27	97	3.6		2,874.63	94,491	107	74	2.24	3.0		15,438.43	19	681	22.67	389
1920	3,971.07	116,449	328	28	1.26	4.5		3,340.35	119,686	91	110	3.06	2.8		22,164.67	25	934	23.73	444
1921	6,714.63	143,891	375	32	1.50	4.7		3,798.95	96,932	89	91	3.56	3.9		19,645.20	28	581	33.81	492
1922	7,403.45	189,289	406	40	1.58	3.9		3,772.70	86,351	94	79	3.46	4.4		19,829.56	30	782	25.36	530
1923	7,858.45	199,709	438	38	1.50	3.9		4,003.70	98,826	99	83	3.37	4.1		15,177.84	33	706	21.50	570
1924	6,457.69	219,484	466	40	1.19	3.0		2,997.54	106,703	99	90	2.52	2.8		11,220.44	26	442	25.36	591
Perth—																			
1919	8,477.47	137,658	479	24	1.47	6.2	8	6,748.11	143,305	157	76	3.58	4.7	8	8,550.93	15	250	34.20	651
1920	10,216.95	218,792	564	32	1.51	4.7		7,025.19	122,988	166	62	3.53	5.7		15,648.27	19	494	31.68	749
1921	12,485.61	256,470	610	35	1.71	4.9		8,879.44	142,086	174	68	4.25	6.2		18,021.42	19	515	34.99	803
1922	13,682.49	262,021	645	35	1.82	5.2		9,091.75	151,580	180	71	4.28	6.0		16,755.30	19	463	36.19	844
1923	14,352.84	312,102	681	38	1.76	4.6		9,493.91	165,466	183	75	4.32	5.7		14,264.45	19	465	30.68	883
1924	12,889.76	364,707	714	44	1.54	3.5		7,756.53	206,118	183	94	3.53	3.8		14,175.91	19	441	32.12	916
Peterborough—																			
1914	8,661.71	.....	2,692	...	...	....	Flat	7,749.91	.....	507	...	...	....	Flat	7,013.23	93	.....	.....	3,292
1915	27,998.24	.....	3,221	...	79	....		27,563.41	.....	602	....	4.14	....		30,185.83	113	.....	.....	3,936
1916	31,020.72	510,359	3,401	13	78	6.1		26,403.82	467,663	602	65	3.66	5.6		36,597.04	117	.....	.....	4,120
1917	40,043.65	973,937	4,152	22	88	4.1		26,601.65	613,865	671	80	3.49	4.3		46,235.49	122	2,871	16.10	4,945
1918	43,049.23	1,166,437	4,409	22	83	3.6		24,679.61	883,196	699	107	3.00	2.7		48,055.38	119	3,432	14.00	5,227
1919	46,282.34	1,378,472	4,257	27	91	3.3		27,616.40	1,207,218	652	164	3.53	2.2		38,930.06	119	2,317	16.80	5,028
1920	51,291.38	1,659,204	4,463	31	96	3.1		30,144.81	1,595,400	689	193	3.64	1.9		51,072.38	121	3,109	16.43	5,273
1921	59,506.10	2,027,601	4,663	36	1.06	2.9		35,364.67	1,964,887	739	225	4.04	1.8		76,195.98	129	4,772	15.97	5,521
1922	68,182.00	2,439,632	4,814	43	1.20	2.8		34,343.99	2,246,434	752	253	3.85	1.6		63,833.18	127	3,879	16.46	5,693
1923	75,853.54	2,919,306	4,966	49	1.27	2.6		40,522.25	2,396,945	743	269	4.54	1.7		71,549.20	124	4,261	16.79	5,833
1924	80,417.54	3,119,460	5,266	51	1.31	2.6		41,591.42	2,411,775	766	266	4.59	1.7		67,445.87	134	4,051	16.65	6,166

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Petrolia—																			
1917	3,346.54	54,138	292	15	95	6.1	14+20	3,837.48	61,972	150	34	2.13	6.2	14+20	6,666.29	34	216	30.86	476
1918	4,096.58	64,342	315	17	1.12	6.3		4,138.05	64,510	158	34	2.23	6.4		11,491.46	40	345	33.30	513
1919	5,024.22	88,243	367	20	1.14	5.7		4,761.37	81,003	163	41	2.43	5.9		16,712.15	53	497	33.62	583
1920	6,034.68	112,806	427	22	1.18	5.3		5,447.61	94,755	176	45	2.58	5.7		19,193.71	59	581	33.04	662
1921	7,786.04	151,611	503	25	1.29	5.1		6,246.63	105,872	187	47	2.78	5.9		21,483.70	61	664	32.31	751
1922	7,797.98	164,276	531	26	1.26	4.8		6,108.86	121,397	192	54	2.69	5.0		19,958.48	78	684	29.18	791
1923	7,555.96	210,263	552	31	1.14	3.5		5,170.26	131,003	187	58	2.34	3.9		23,303.44	67	884	26.36	806
1924	7,856.97	275,557	581	40	1.15	2.9		5,374.97	159,476	189	71	2.37	3.3		22,919.78	66	887	25.84	836
Picton—																			
1919	.....	.....	604	.....	.....	.....	12.5	.....	.....	75	.....	.....	.....	12.5	1,239.91	26	52	23.84	705
1920	9,915.08	123,499	657	16	1.26	8.0		9,480.61	121,838	122	46	3.56	7.8		9,477.94	32	303	31.28	811
1921	11,840.43	142,582	698	17	1.41	8.3		9,641.61	112,546	156	60	5.15	8.6		12,162.97	31	343	35.46	885
1922	11,294.43	177,900	745	21	1.30	6.3		8,540.27	141,822	187	69	4.16	6.0		10,333.64	36	322	32.09	968
1923	11,817.03	261,212	777	28	1.27	4.5		7,001.42	147,820	168	73	3.47	4.7		7,680.07	43	392	19.59	988
1924	11,285.18	335,420	816	35	1.18	3.4		5,667.16	162,560	187	76	2.65	3.5		9,149.20	41	397	23.05	1,044
Plattsville—																			
1915	551.39	6,061	56	.....	.....	9.1	None	477.71	5,091	20	.....	.....	9.4	None	1,128.27	4	.....	.....	80
1916	666.30	7,422	60	11	96	9.0		580.62	5,900	22	14	1.35	9.8		1,436.62	3	.....	.....	85
1917	670.35	7,220	60	10	93	9.3		583.58	6,714	22	25	2.21	8.7		768.37	2	37	20.77	84
1918	699.99	9,011	60	11	97	8.7		636.88	8,489	23	31	2.35	7.5		1,596.81	2	60	26.60	85
1919	795.79	8,967	62	12	1.07	8.9		826.27	15,051	27	46	2.40	5.2		3,053.72	2	65	46.98	91
1920	969.31	11,294	65	14	1.24	8.6		873.81	14,655	26	47	2.80	6.0		3,155.32	3	92	34.30	94

1921	1,066.62	14,362	77	15	1.15	7.4		706.15	10,570	20	44	2.94	6.7		302.26	2	15	20.15	99
1922	1,283.04	17,448	75	19	1.41	7.3		790.79	16,773	28	58	2.35	4.7		222.29	2	15	14.82	105
1923	1,585.59	23,008	78	25	1.70	6.8		915.67	11,027	28	33	2.72	8.3		330.98	2	15	22.06	108
1924	1,707.29	24,023	80	25	1.80	7.2		875.11	10,097	28	30	2.60	8.6		682.26	3	42	16.24	111
Point Edward—																			
1923	3,348.43	124,855	222	47	1.25	2.6		1,332.94	34,762	34	85	3.26	3.8		4,906.53	10	195	25.16	266
1924	3,705.98	136,447	250	48	1.31	2.7		1,286.84	30,840	39	70	2.90	4.1		9,367.70	10	515	18.19	299
Port Arthur—																			
1913	81,830.66	.....	2,409	....	.....	....	8+25	*	.....	500	....	.....	....	8+25	51,748.11	55	.....	.....	2,464
1914	38,097.65	.....	2,969	....	.....	....		32,933.91	.....	550	....	.....	....		92,804.49	55	.....	.....	3,574
1915	32,048.37	.....	2,800	....	.....	....		28,662.58	.....	550	....	.....	....		85,060.78	50	.....	.....	3,900
1916	31,152.52	.....	2,701	....	.....	....		27,439.63	.....	481	....	.....	....		96,913.51	46	.....	.....	3,228
1917	33,358.31	.....	2,783	....	.....	....		28,235.05	.....	503	....	.....	....		111,367.47	42	5,093	21.88	3,328
1918	37,216.29	1,157,382	2,807	34	1.11	3.2		31,612.57	919,826	535	147	5.07	3.4		142,118.26	42	6,967	20.39	3,384
1919	41,584.37	1,342,696	2,633	43	1.32	3.1		33,390.02	978,503	625	131	4.45	3.4		168,517.53	58	8,420	20.01	3,316
1920	45,432.34	1,641,294	2,960	45	1.28	2.8		32,165.55	1,078,290	590	152	4.54	3.0		178,529.32	59	8,983	19.57	3,609
1921	49,880.56	2,049,606	3,088	56	1.37	2.4		31,067.82	1,250,356	619	172	4.28	2.5		185,395.43	64	9,556	19.40	3,771
1922	52,356.36	2,544,274	3,153	68	1.40	2.1		34,267.89	1,458,218	630	194	4.57	2.4		228,365.08	80	11,796	19.36	3,863
1923	55,526.19	3,265,548	3,281	84	1.44	1.7		36,892.19	1,677,338	664	216	4.75	2.2		338,532.24	79	18,335	18.46	3,862
1924	65,709.88	4,097,699	3,389	104	1.67	1.6		42,658.99	1,987,016	663	256	5.50	2.1		420,440.79	78	20,852	20.11	4,130
Port Colborne—																			
1920	4,301.60	101,020	465	25	1.00	4.2		3,082.14	89,448	132	80	2.25	3.5	4	2,718.09	13	140	19.45	610
1921	8,220.47	164,365	579	24	1.18	5.0	10	5,125.80	140,397	151	79	2.83	3.6		4,381.18	17	181	24.20	747
1922	9,496.22	246,059	608	34	1.33	3.9		4,990.40	159,052	155	87	2.72	3.1		7,602.88	13	275	27.65	776
1923	11,719.01	422,793	695	51	1.41	2.8		5,524.34	236,224	175	112	2.63	2.3		4,199.73	14	185	22.70	884
1924	13,171.21	613,725	852	66	1.42	2.2		6,053.01	245,085	186	113	2.79	2.5		5,280.10	16	199	26.53	1,054
Port Credit—																			
1913	1,963.22	.....	93	....	.....	....	None	*	.....	21	....	.....	....	None	848.59	2	.....	.....	116
1914	2,461.42	41,862	125	....	.....	6.0		*	.....	35	....	.....	6.0		308.88	2	.....	.....	162
1915	1,975.29	36,484	141	23	1.24	5.4		587.11	17,934	33	44	1.18	3.3		236.47	3	.....	.....	177
1916	1,781.49	44,251	145	26	1.04	4.0		464.02	13,800	33	35	1.17	3.3		257.40	3	.....	.....	181
1917	1,822.36	42,378	162	23	98	4.3		452.84	12,833	33	33	1.14	3.5		246.63	3	23	.....	198
1918	2,107.78	58,660	164	29	1.07	3.5		509.82	15,875	33	40	1.28	3.2		203.48	3	23	.....	200
1919	2,459.05	78,097	182	36	1.13	3.1		669.12	16,213	39	35	1.43	4.1		245.57	3	23	.....	224
1920	3,173.10	96,791	199	40	1.33	3.3		1,164.86	46,568	44	81	2.21	2.7		406.02	3	33	12.30	246
1921	3,878.10	130,797	221	49	1.46	3.0		1,479.06	48,529	42	93	2.77	3.0		1,536.81	6	64	24.01	269
1922	4,220.61	169,972	241	61	1.52	2.5		1,786.91	75,859	46	145	3.38	2.3		1,525.24	6	67	22.76	293
1923	5,294.45	255,936	270	78	1.63	2.0		1,781.95	79,280	55	136	2.69	2.2		1,343.47	8	55	24.24	333
1924	5,385.95	283,006	302	82	1.57	1.9		2,126.92	104,455	62	147	3.00	2.0		1,201.68	6	80	15.02	370

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Port Dalhousie—																				
	1913	3,742.54	.....	238	.....	.....	.....	Flat	*	.....	*	.....	.....	.....	Flat	347.27	3	.....	.....	241
	1914	3,656.01	.....	240	.....	.....	.....		*	.....	10	.....	.....	.....		429.54	3	.....	.....	253
	1915	3,608.70	.....	250	.....	.....	.....		.....	.....	10	.....	.....	.....		252.12	2	.....	.....	252
	1916	2,868.05	.....	330	.....	.....	.....		782.99	.....	23	.....	.....	.....		339.12	8	.....	.....	370
	1917	3,249.37	.....	330	.....	.....	.....		881.01	.....	32	.....	.....	.....		321.67	8	.....	.....	370
	1918	3,224.98	.....	366	.....	.....	.....		799.78	.....	29	.....	.....	.....		615.76	10	53	11.62	405
	1919	3,620.82	.....	338	.....	.....	.....		1,155.84	.....	32	.....	.....	.....		948.66	10	84	11.29	380
	1920	4,055.23	92,034	360	23	96	4.5		1,059.28	23,916	34	60	2.67	4.4		1,234.39	9	85	14.50	403
	1921	5,134.11	98,418	373	22	1.15	5.2		1,018.97	22,915	28	68	3.03	4.4		1,054.38	7	71	14.85	408
	1922	6,376.33	108,840	411	23	1.36	5.8		1,162.77	31,175	33	86	3.23	3.7		1,758.66	8	128	13.74	452
	1923	7,401.61	135,738	516	21	1.19	5.4		1,851.11	36,165	29	104	5.35	5.1		2,318.60	10	119	19.48	555
	1924	9,897.31	305,192	582	46	1.51	3.3		1,553.27	44,060	30	122	4.31	3.5		2,654.96	12	139	19.10	624
Port Dover—																				
	1922	2,069.83	29,380	156	16	1.11	7.0		2,075.46	24,403	77	26	2.25	8.5		261.85	3	11	23.80	236
	1923	3,590.29	54,876	208	21	1.43	6.5		2,551.59	38,976	88	37	2.42	6.5		938.66	4	21	44.69	300
	1924	4,539.61	77,081	238	29	1.70	5.9		2,740.98	52,009	96	47	2.48	5.3		862.05	1	30	28.73	335
Port McNicoll—																				
	1915	415.03	6,037	60	.....	.....	6.8	None	311.20	6,542	26	.....	1.07	4.7	None	.....	.....	.....	.....	86
	1916	618.82	9,450	66	12	82	6.5		301.92	4,738	21	17	.....	6.4		7.37	1	.....	.....	88
	1917	829.39	.....	78	.....	.....	.....		381.25	.....	21	.....	.....	.....		77.41	1	.....	.....	100
	1918	878.50	15,481	82	16	91	5.6		427.47	7,639	19	31	1.78	5.5		28.09	1	3	.....	102

1919	1,201.52	18,536	100	15	1.00	6.5		528.68	8,890	22	34	2 00	5.9		51.13	1			123
1920	1,514.24	22,640	103	18	1.22	6.7		566.00	9,560	22	36	2.14	5.9		87.40	1	2	43.70	126
1921	1,879.68	30,108	106	24	1.48	6.2		692.07	13,992	26	42	2.22	4.9		109.77	1	3	36.59	133
1922	2,024.69	30,862	109	24	1.58	6.5		964.67	14,820	30	46	2.87	6.3		98.90	1	2	49.45	140
1923	1,769.16	31,930	112	23	1.31	5.5		1,095.31	16,238	33	41	2.77	6.7		80.81	1	3	26.94	146
1924	1,989.67	39,711	120	28	1.43	5.1		744.38	15,253	30	40	1.94	4.9		71.55	1	2	35.77	151
Port Perry—																			
1922	860.24	.....	192	....	....	....		509.11	.....	54	....	....	....		.....	1	.....	.....	247
1923	5,722.85	.....	.....	....	....	....		3,270.27	.....	.....	....	....	....		735.45	....	21	35.02	.....
1924	5,149.08	55,879	217	21	1.98	9.4		2,584.67	17,746	68	22	3.17	14.4		2,040.93	8	60	34.41	293
Port Stanley—																			
1912	897.02	.....	122	....	....	....	Flat	1,106.63	.....	40	....	....	....	Flat	1,314.70	3	.....	.....	165
1913	1,828.06	.....	182	....	....	....		1,771.70	.....	60	....	....	....		2,418.00	9	.....	.....	251
1914	2,066.41	.....	229	....	....	....		1,753.60	.....	72	....	....	....		1,270.83	12	.....	.....	313
1915	2,498.57	.....	274	....	....	....		1,736.42	.....	73	....	....	....		2,064.76	9	.....	.....	356
1916	2,956.97	.....	308	....	....	....		1,551.37	.....	72	....	....	....		1,985.92	11	.....	.....	391
1917	3,386.56	.....	323	....	....	....		1,714.56	.....	57	....	....	....		3,174.23	6	.....	.....	396
1918	3,736.63	59,736	140	21	1.34	6.2		1,734.62	21,927	67	27	2.15	7.9		2,738.60	16	80	34.23	223
1919	4,433.44	.....	388	....	95	....		1,973.57	26,922	75	30	2.20	7.3		2,996.19	17	77	38.91	480
1920	5,003.83	.....	439	....	95	....		1,696.00	38,808	89	36	1.59	4.4		5,324.27	20	161	33.07	548
1921	6,558.51	367,909	481	64	1.14	....		1,608.99	72,080	111	54	1.21	....		5,344.03	19	174	30.71	611
1922	7,306.84	.....	508	....	.....	....		1,881.49	.....	67	....	.....	....		5,720.55	12	190	30.11	587
1923	7,460.33	.....	518	....	1.21	....		2,110.89	.....	60	....	2.94	....		3,933.41	14	144	27.31	592
1924	7,608.09	.....	534	....	.....	....		2,057.60	.....	57	....	.....	....		4,793.26	12	144	33.28	603
Prescott—																			
1914	4,868.75	.....	342	....	.....	....	9	3,600.00	.....	122	....	.....	....	9	1,099.27	10	.....	.....	474
1915	4,058.14	67,130	369	16	95	6.0		3,033.62	62,647	145	39	1.89	4.8		3,431.45	11	.....	.....	525
1916	4,186.96	63,304	380	15	93	6.6		3,611.95	71,794	133	43	2.16	5.0		4,141.90	22	.....	.....	525
1917	4,865.40	79,202	381	17	1.06	6.1		3,999.55	88,386	134	55	2.49	4.5		5,010.65	14	232	21.60	529
1918	4,783.96	79,573	414	16	1.00	6.0		3,663.18	87,224	134	54	2.27	4.2		5,595.29	14	257	21.77	562
1919	5,354.77	96,876	524	19	1.05	5.5		3,556.77	69,093	126	46	2.35	5.1		4,946.97	18	243	20.36	568
1920	5,952.58	113,550	456	21	1.09	5.2		4,043.40	81,938	136	50	2.48	4.9		5,206.91	21	257	20.26	613
1921	7,851.66	122,369	466	22	1.40	6.4		4,730.49	89,896	133	56	2.96	5.3		5,721.94	18	270	22.19	617
1922	8,954.07	152,011	470	27	1.59	5.9		5,196.38	103,430	136	64	3.23	5.0		6,481.29	21	336	19.28	627
1923	8,617.09	176,463	473	31	1.51	4.9		4,947.78	111,852	147	63	2.80	4.4		6,360.59	20	254	25.08	640
1924	6,819.17	219,600	502	37	1.16	3.1		4,048.82	134,030	144	77	2.33	3.0		6,239.03	22	268	23.26	668

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Preston—																			
1912	4,234.68	.....	341	.....	.....	.....	9+20	5,237.99	.....	131	.....	.....	.....	9+20	15,478.14	21	.....	.....	492
1913	5,477.10	83,852	526	16	1.05	6.5		5,366.77	103,000	151	61	3.18	5.2		21,017.68	28	.....	.....	705
1914	6,520.39	108,257	629	14	90	6.0		5,011.15	106,675	165	56	2.64	4.7		21,975.26	29	.....	.....	823
1915	6,615.91	129,896	714	16	82	6.1		4,488.76	118,756	174	58	2.21	3.8		21,698.34	30	.....	.....	918
1916	7,341.15	186,361	785	21	82	3.9		4,779.76	155,325	182	72	2.24	3.1		22,624.37	34	.....	.....	1,001
1917	8,956.89	215,302	843	22	91	4.2		5,733.82	159,885	186	72	2.60	3.5		24,569.60	35	1,353	18.16	1,064
1918	9,090.16	254,288	871	24	88	3.5		4,981.29	158,257	190	70	2.20	3.1		23,016.09	37	1,235	18.63	1,098
1919	10,345.24	302,252	935	27	92	3.4		6,320.68	227,636	193	97	2.73	2.8		27,339.13	40	1,505	18.17	1,168
1920	11,667.41	411,997	1,010	34	96	2.8		7,902.05	287,866	193	124	3.41	2.7		29,895.21	41	1,902	15.72	1,244
1921	15,234.56	472,870	1,074	37	1.10	3.2		8,008.17	311,846	196	133	3.40	2.6		32,165.77	42	1,755	18.33	1,312
1922	19,038.45	803,177	1,164	60	1.42	2.4		9,203.81	365,412	203	153	3.85	2.5		38,677.75	53	2,116	18.28	1,420
1923	24,540.48	1,181,121	1,212	81	1.68	2.0		11,579.10	456,108	202	188	4.77	2.5		41,981.43	53	1,854	22.64	1,467
1924	28,958.51	1,434,929	1,295	95	1.92	2.0		14,326.44	603,530	205	246	5.85	2.4		47,734.22	47	1,780	26.82	1,547
Priceville—																			
1922	356.45	.....	18	.....	.....	.....		180.10	.....	8	.....	.....	.....		.....	.....	.....	.....	26
1923	416.54	.....	.....	.....	.....	.....		195.03	.....	.....	.....	.....	.....		.....	.....	.....	.....	.....
1924	492.97	5,191	25	17	1.64	9.6		234.55	2,718	9	25	2.17	8.7		.....	.....	.....	.....	34
Princeton—																			
1915	440.42	.....	30	.....	.....	.....	None	81.57	.....	15	.....	.....	.....	None	.....	.....	.....	.....	45
1916	657.80	7,739	44	17	1.48	8.5		127.81	1,278	11	8	83	10.6		192.92	.....	.....	.....	55
1917	789.51	8,412	46	16	1.46	9.4		178.43	1,290	12	9	1.24	....		.....	.....	.....	.....	58
1918	657.45	6,960	47	12	1.17	9.4		181.19	2,367	12	16	1.25	7.6		.....	.....	.....	.....	59
1919	845.12	.....	48	....	1.47	....		229.56	.....	12	....	1.60	....		.....	.....	.....	.....	60
1920	1,104.05	.....	64	....	1.45	....		339.38	.....	13	....	2.17	....		.....	.....	.....	.....	77

1921	1,223.37	12,036	55	18	1.85	10.2		393.41	3,570	10	30	3.28	11.0		.....	....	.....	.....	65
1922	1,527.18	.....	55	....	....	....		469.37	.....	12	....	....	....		.....	....	.....	.....	67
1923	1,751.92	.....	55	....	2.65	....		425.60	.....	12	....	2.95	....		.....	....	.....	.....	67
1924	2,093.16	30,039	82	36	2.05	5.7		272.61	4,948	13	32	1.75	5.5		445.96	1	10	44.60	96
Queenston—																			
1922	996.25	31,563	55	48	1.51	3.1		159.43	2,143	7	26	1.83	7.4		591.09	2	24	24.63	57
1923	1,443.69	52,085	64	67	1.87	2.7		154.90	2,674	3	87	4.33	6.2		579.52	1	24	24.14	68
1924	1,662.87	77,514	68	98	2.10	2.1		131.05	2,308	4	55	3.12	5.7		675.01	1	23	29.35	73
Ridgetown—																			
1916	2,173.61	24,975	174	....	....	8.7	10+25	2,838.32	32,594	101	....	....	8.7	10+25	740.86	3	.....	.....	278
1917	2,551.69	31,381	205	14	1.12	8.1		2,720.19	26,199	98	22	2.31	10.3		2,245.85	5	96	23.39	308
1918	2,726.19	33,538	221	13	1.06	8.1		2,434.14	32,567	97	30	2.08	7.4		4,188.49	6	135	31.02	324
1919	3,364.53	47,770	269	15	1.04	7.1		2,991.80	46,266	102	38	2.38	6.3		4,510.09	8	166	27.17	379
1920	4,054.63	63,938	317	15	1.07	7.1		3,474.32	62,322	108	48	2.68	5.6		5,249.31	8	169	31.06	433
1921	4,524.10	79,775	359	19	1.05	5 7		3,401.55	64,552	121	44	2.34	5.3		6,200.89	9	191	32.46	489
1922	4,303.72	104,199	391	23	96	4.2		3,164.42	88,999	128	60	2.13	3.5		6,349.73	11	205	30.97	530
1923	5,138.35	124,607	424	24	1.00	4.2		3,501.55	100,981	128	66	2.27	3.4		6,057.22	14	204	29.69	566
1924	5,625.27	197,124	447	38	1.08	2.8		3,392.08	106,639	124	70	2.24	3.2		6,368.30	17	246	25.89	588
Ripley—																			
1922	1,312.40	11,993	64	16	1.71	10.9		1,598.21	12,452	44	24	3.03	12.8		1,618.29	1	39	41.49	109
1923	1,509.93	15,463	74	18	1.70	9.7		1,742.65	12,389	44	23	3.30	14.0		1,094.16	1	38	28.79	119
1924	1,994.04	22,897	75	26	2.23	8.6		2,102.78	17,477	41	34	4.12	12.1		.....	....	.....	.....	116
Riverside—																			
1922	3,298.22	.....	376	....	....	....		320.09	.....	14	....	....	....		312.30	2	.....	.....	392
1923	14,832.01	533,595	492	90	2.51	2.7		1,430.38	25,341	21	100	5.67	5.6		1,490.49	5	66	24.09	518
1924	21,863.35	712,191	679	101	3.11	3.1		2,097.49	43,624	27	151	7.28	4.8		2,964.82	5	96	30.88	711
Rockwood —																			
1913	230.27	.....	48	....	....	....	None	*	.....	9	....	....	....	None	470.82	1	.....	.....	58
1914	848.55	7,824	54	13	1.38	8.8		*	.....	7	....	....	8.8		1,542.01	3	.....	.....	64
1915	731.97	9,500	65	13	1.03	7.7		251.27	3,300	10	32	2.46	7.7		907.57	3	.....	.....	78
1916	733.66	11,263	72	14	89	6.5		388.05	5,930	11	47	3.08	6.4		903.57	5	.....	.....	87
1917	795.54	12,740	77	14	90	6.2		380.90	6,061	15	39	2.44	6.3		1,097.05	3	59	18.60	95
1918	860.14	13,242	79	14	91	6.4		372.56	5,812	14	33	2.14	6.4		1,087.21	4	59	18.43	97
1919	1,023.14	17,602	93	16	92	5.8		384.46	6,571	17	32	1.90	5.9		1,177.94	4	59	19.97	114
1920	1,382.39	22,935	94	20	1.23	6.2		480.73	6,116	18	28	1.89	6.7		1,310.28	4	60	21.84	116
1921	1,799.39	27,899	112	21	1.34	6.4		584.02	7,607	16	40	3.04	7.7		2,056.68	4	73	28.17	132
1922	1,939.72	35,916	118	26	1.41	5.4		550.71	7,597	17	40	2.85	7.2		1,434.38	4	58	24.73	139
1923	1,835.72	39,722	125	26	1.23	4.6		508.88	7,663	18	35	2.36	6.6		1,332.84	4	52	25.63	147
1924	1,724.71	51,007	125	34	1.15	3.1		457.78	9,615	19	43	2.06	4.8		1,253.55	4	48	26.11	148

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

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		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Rodney—																				
	1917	587.46	.....	57	....	....	....	None	665.84	.....	41	....	....	....	None	.....	....	.....	.....	98
	1918	794.65	6,522	63	9	1.10	12.0		911.63	7,916	44	15	1.78	11.5		.....	....	.....	.....	107
	1919	1,050.66	10,423	78	11	1.12	10.1		1,224.65	9,712	46	18	2.04	11.4		1,657.98	2	47	35.28	126
	1920	1,516.38	15,389	104	12	1.21	9.9		1,373.38	12,641	53	20	2.16	10.9		1,506.77	2	55	27.40	159
	1921	1,849.15	20,809	120	14	1.28	8.9		1,548.45	14,445	56	21	2.30	10.7		1,427.43	2	51	29.99	178
	1922	1,897.70	26,252	131	17	1.26	7.3		1,362.47	18,950	60	26	1.89	7.2		1,343.34	4	69	19.47	195
	1923	2,005.79	31,109	148	17	1.12	6.4		1,373.87	26,218	60	36	1.92	5.2		1,933.14	4	72	26.84	212
	1924	1,971.73	41,597	160	22	1.07	4.9		1,321.17	26,635	65	35	1.75	5.0		2,313.33	4	93	24.77	229
St. Catharines—																				
	1914	2,013.48	53,572	833	....	....	3.7	7	412.75	22,843	92	....	....	1.9	7	12,742.98	20	.....	.....	945
	1915	9,540.70	273,389	1,612	19	65	3.5		3,810.11	196,056	192	115	2.23	1.9		25,193.30	34	.....	.....	1,838
	1916	16,419.57	591,765	2,410	24	68	2.8		5,925.49	318,877	247	121	2.25	1.5		40,688.67	48	.....	.....	2,705
	1917	24,275.56	1,038,894	2,833	31	77	2.3		6,024.34	392,524	270	127	1.99	1.5		71,138.36	52	4,418	16.10	3,155
	1918	30,187.05	1,448,273	3,022	40	84	2.0		6,028.41	374,447	279	113	1.83	1.6		94,632.33	53	4,873	19.41	3,454
	1919	36,710.19	1,815,947	3,428	44	89	2.0		7,401.09	489,325	299	136	2.06	1.5		48,616.67	52	3,301	14.73	3,719
	1920	46,123.30	2,899,265	3,703	65	1.04	1.6		8,930.44	627,664	338	155	2.20	1.4		60,203.07	69	3,799	15.85	4,110
	1921	55,560.41	3,932,393	4,040	81	1.15	1.4		10,321.67	685,855	360	159	2.39	1.5		54,947.24	84	3,773	14.56	4,484
	1922	59,603.93	4,565,984	4,341	88	1.15	1.3		11,409.66	824,900	398	173	2.39	1.4		66,583.84	93	4,057	16.40	4,832
	1923	77,332.47	4,394,072	4,598	79	1.40	1.7		15,293.23	981,783	445	184	2.86	1.5		77,224.26	105	4,621	16.71	5,148
	1924	89,008.31	5,380,069	4,851	95	1.57	1.6		17,302.65	1,126,451	481	203	3.11	1.5		65,642.90	106	4,242	15.48	5,438

St. Clair Beach—																				
1922	113.46	.....	23	.....	.....	.....		504.81	.....	2	.....	.....	.....		66.64	1	.....	.....	26
1923	719.63	13,273	34	32	1.76	5.4		1,836.97	1,862	1	155	.....	.....		316.19	2	10	31.61	37
1924	1,419.21	33,175	34	81	3.48	4.3		3,302.33	60,299	4	1675	9173	5.5		298.81	2	12	24.90	40
St. George —																				
1915	203.23	.....	39	.....	.....	.....	None	139.16	.....	14	.....	.....	.....	None	311.30	1	.....	.....	54
1916	832.23	11,483	56	20	1.46	7.2		474.38	7,031	24	31	2.08	6.7		583.52	2	.....	.....	82
1917	1,046.91	15,314	60	22	1.50	6.8		478.96	8,067	23	29	1.74	5.9		642.64	3	35	18.36	86
1918	1,138.63	14,034	64	18	1.53	8.1		456.16	8,405	25	29	1.58	5.4		1,379.58	4	44	31.35	93
1919	1,399.56	17,841	71	21	1.64	7.8		595.23	10,711	25	36	1.99	5.5		2,254.91	4	75	30.06	100
1920	1,390.96	19,694	80	20	1.45	7.1		711.98	13,764	24	48	2.47	5.2		2,010.11	4	71	28.31	108
1921	1,312.39	22,771	87	22	1.24	5.8		656.56	13,845	25	46	2.19	4.7		2,029.88	4	78	26.02	116
1922	1,608.26	31,675	96	29	1.48	5.1		719.97	14,384	27	46	2.31	5.0		2,151.07	4	83	26.89	127
1923	1,729.11	36,893	100	30	1.44	4.9		764.20	20,382	26	65	2.44	3.7		2,383.66	4	83	28.71	130
1924	1,584.38	51,038	108	41	1.27	3.1		586.63	10,677	31	31	1.68	5.4		2,427.70	4	90	26.97	143
St. Jacobs —																				
1918	570.67	7,000	43	.....	.....	.....	None	521.00	7,559	21	.....	.....	.....	None	2,160.76	1	.....	.....	65
1919	615.87	7,992	48	14	1.07	7.7		517.40	6,462	22	24	1.96	8.0		2,031.33	2	66	30.87	72
1920	742.62	14,600	60	20	1.03	5.1		494.93	4,588	14	26	2.78	10.8		2,431.32	2	.....	.....	76
1921	989.14	16,370	57	24	1.45	6.0		524.38	6,049	23	22	1.90	8.7		2,303.05	2	77	29.91	82
1922	1,258.71	24,699	70	32	1.66	5.1		456.62	10,465	23	28	1.49	5.4		1,136.57	3	41	27.72	95
1923	1,576.05	42,219	69	63	1.90	3.7		600.18	14,401	23	52	2.17	4.1		147.82	2	13	11.37	94
1924	1,560.32	36,692	71	44	1.86	4.2		741.47	20,498	26	68	2.47	3.6		613.48	4	26	23.60	101
St. Marys —																				
1912	4,967.16	.....	240	.....	.....	.....	9+15	4,059.20	.....	143	.....	.....	.....	9+15	6,001.30	20	.....	.....	402
1913	3,815.77	44,801	396	12	1.00	8.5		4,553.73	62,486	160	34	2.50	7.3		8,221.72	29	.....	.....	588
1914	4,614.95	67,375	454	13	90	6.7		4,733.33	75,257	161	39	2.46	6.3		10,610.00	30	.....	.....	645
1915	5,073.97	72,819	528	12	86	6.9		4,222.53	75,644	151	40	2.25	5.5		8,739.87	33	.....	.....	712
1916	5,020.33	127,274	563	19	77	3.9		3,161.26	79,768	161	42	1.69	4.0		9,266.74	28	.....	.....	752
1917	5,552.22	140,001	583	20	81	4.0		3,052.62	87,774	161	45	1.58	3.5		8,814.71	30	472	18.67	774
1918	6,341.15	173,316	606	24	88	3.6		2,973.05	86,665	180	42	1.45	3.4		8,510.57	34	426	19.97	820
1919	8,046.60	233,881	728	27	92	3.4		3,526.28	133,805	151	74	1.95	2.6		8,996.31	32	487	18.47	911
1920	9,598.64	306,916	759	34	1.05	3.1		4,593.72	154,624	151	85	2.53	3.0		15,497.27	40	671	23.10	950
1921	12,479.26	406,040	811	42	1.28	3.1		5,952.89	178,536	153	97	3.24	3.3		22,885.85	42	856	26.73	1,006
1922	15,043.43	517,681	839	52	1.51	2.9		6,097.33	173,918	198	83	2.90	3.5		21,805.60	41	844	25.83	1,078
1923	16,151.56	650,071	874	61	1.54	2.4		6,372.72	189,635	198	79	2.68	3.3		16,812.86	42	707	23.78	1,114
1924	16,448.62	747,687	904	70	1.54	2.2		6,403.59	196,960	200	82	2.68	3.3		15,106.56	44	669	22.58	1,148

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
St. Thomas—																			
1912	7,596.01	.....	620	....	....	....	11	18,741.74	.....	300	....	....	....	11	14,761.30	60	.....	.....	980
1913	11,125.50	187,000	951	19	1.18	5.9		16,097.41	272,000	329	72	4.26	5.9		36,550.26	70	.....	.....	1,350
1914	13,221.00	277,539	1,499	19	90	4.8		13,480.75	346,994	384	81	3.15	3.9		44,247.13	92	.....	.....	1,975
1915	16,517.37	460,103	1,903	23	81	3.6		13,442.48	504,679	434	102	2.73	2.7		44,780.45	101	.....	.....	2,438
1916	20,210.52	629,102	2,241	25	81	3.2		15,145.47	607,131	464	93	2.81	2.5		46,698.91	107	.....	.....	2,812
1917	22,620.72	759,512	2,524	27	79	3.0		14,843.27	600,317	472	107	2.64	2.5		44,977.52	112	2,349	19.15	3,108
1918	25,561.20	877,011	2,654	28	82	2.9		12,332.86	694,990	481	121	2.15	1.7		53,973.48	112	2,546	21.19	3,247
1919	29,904.22	1,001,693	3,073	27	81	2.9		14,958.16	796,838	504	132	2.47	1.9		54,035.16	112	2,754	19.62	3,689
1920	39,060.45	1,486,606	3,485	36	93	2.6		19,489.14	868,845	523	138	3.10	2.2		53,682.89	112	3,167	16.96	4,120
1921	41,410.99	1,749,059	3,355	43	1.03	2.4		21,113.52	983,369	547	150	3.22	2.1		50,755.91	110	3,300	15.38	4,012
1922	48,664.67	2,312,688	3,744	54	1.15	2.1		25,144.74	1,148,936	574	171	3.74	2.2		58,344.66	116	3,578	16.31	4,434
1923	61,460.88	3,196,742	3,911	68	1.30	1.9		27,924.54	1,379,900	593	193	3.92	2.0		73,951.69	112	3,773	19.60	4,616
1924	63,645.65	3,661,173	3,747	80	1.38	1.7		31,726.62	1,546,218	603	215	4.42	2.1		73,883.39	116	3,818	19.35	4,466
Sandwich—(9 months)																			
1924	39,260.85	.....	1,596	....	....	....		6,909.99	.....	106	....	....	....		5,254.85	17	.....	.....	1,719
Sarnia—																			
1917	25,655.32	385,770	2,150	15	99	6.6	6	18,724.77	405,824	439	75	3.55	4.4	5—4	33,693.36	58	1,014	33.23	2,647
1918	28,772.83	549,370	2,380	20	1.05	5.2		19,935.11	494,635	445	93	3.75	4.0		35,272.45	62	1,110	31.78	2,887
1919	33,920.44	720,871	2,681	22	1.05	4.7		22,668.63	534,075	492	91	3.84	4.2		68,714.03	70	2,065	33.28	3,243
1920	44,174.44	1,028,520	2,918	29	1.26	4.3		28,041.43	566,212	477	98	4.90	5.0		100,632.53	65	2,687	37.45	3,460
1921	51,857.64	1,473,021	3,591	34	1.20	3.5		29,269.89	841,088	546	127	4.47	3.5		90,166.93	79	2,816	22.02	4,216
1922	57,975.10	1,903,231	3,928	42	1.29	3.0		24,663.65	949,077	565	143	3.54	2.5		92,054.18	86	2,950	31.20	4,579
1923	69,562.83	2,591,212	3,923	55	1.47	2.6		31,650.47	1,071,813	558	160	4.72	2.9		99,326.63	79	3,024	32.84	4,560
1924	74,902.85	2,868,366	4,176	59	1.54	2.6		34,052.52	1,239,824	610	177	4.86	2.7		99,656.44	78	2,935	33.95	4,864

Scarboro Twp.—																			
1919	.....	58,961	428	12	....	....	None	.....	4,054	9	30	....	....	None	.....	1	.....	.....	438
1920	.....	144,202	652	18	....	....		*	3,374	8	35	....	....		3,083.31	3	59	52.26	663
1921	13,932.01	305,779	947	27	1.23	4.5		943.89	18,096	15	100	5.24	5.2		3,920.18	8	119	32.94	960
1922	20,438.77	293,567	1,363	21	1.13	5.4		3,925.46	61,845	58	89	5.64	6.3		6,439.46	12	175	36.80	1,433
1923	40,972.43	804,373	2,552	26	1.33	5.0		5,163.61	98,561	172	48	2.50	5.2		10,814.89	25	295	36.66	2,749
1924	50,986.90	1,884,735	2,549	61	1.66	2.7		9,124.97	234,346	190	108	4.20	3.9		12,492.41	29	406	30.77	2,768
Seaforth—																			
1913	2,124.18	24,665	178	....	....	8.6		2,876.47	34,789	105	....	....	8.3		7,509.99	10	.....	.....	293
1914	2,467.36	37,453	211	16	1.06	6.8	8+25	2,581.30	45,492	112	35	1.98	5.6	8+25	7,707.01	10	.....	.....	333
1915	2,593.70	43,162	238	16	96	6.0		2,724.84	48,840	111	37	2.03	5.6		7,685.52	11	.....	....	360
1916	3,045.65	51,884	280	17	97	5.9		2,941.03	56,380	110	43	2.22	5.2		9,684.11	12	.....	.....	402
1917	3,437.49	59,870	298	17	96	5.8		2,902.34	49,593	112	37	2.16	5.8		15,125.30	13	401	37.72	423
1918	3,675.33	65,761	311	18	99	5.6		2,874.71	50,140	108	38	2.17	5.7		21,124.99	12	573	36.86	431
1919	4,209.20	80,479	326	21	1.08	5.2		3,460.97	62,055	119	43	2.42	5.6		12,054.95	13	469	25.70	455
1920	4,606.78	94,972	400	20	96	4.8		3,764.88	79,380	117	56	2.68	4.8		9,860.95	13	360	27.39	530
1921	5,870.40	138,859	447	26	1.09	4.2		3,610.84	89,515	124	60	2.43	4.0		9,993.15	13	407	24.55	584
1922	6,631.66	182,565	479	32	1.19	3.7		3,567.85	91,694	115	64	2.48	3.9		8,829.97	11	354	24.94	606
1923	7,854.34	250,783	504	41	1.29	3.1		3,879.71	111,753	110	84	2.93	3.4		6,622.57	12	261	25.37	626
1924	8,574.95	296,986	535	47	1.37	2.9		4,448.60	116,522	118	85	3.25	3.8		7,191.93	12	255	28.21	665
Shelburne—																			
1917	1,625.28	28,451	133	18	1.02	5.7	10	1,362.06	23,807	74	27	1.53	5.7	10	620.14	4	28	22.15	210
1918	1,749.09	31,280	142	19	1.06	5.5		1,416.45	25,820	76	28	1.57	5.4		2,465.07	5	102	24.16	223
1919	2,046.30	40,546	170	20	1.00	5.0		1,645.38	32,215	76	35	1.80	5.1		2,606.52	3	107	24.36	249
1920	2,616.47	42,896	182	19	1.18	6.1		2,084.51	34,331	81	35	2.14	6.1		4,086.32	9	173	23.62	272
1921	3,754.83	60,112	206	24	1.52	6.2		2,862.25	48,759	80	51	2.98	5.9		4,460.29	7	181	24.64	293
1922	4,441.32	68,766	221	27	1.74	6.4		2,829.00	46,235	78	49	2.98	6.1		3,429.94	9	152	22.57	308
1923	4,535.60	68,639	234	24	1.61	6.6		3,545.17	49,900	86	48	3.43	7.1		3,678.96	8	144	25.54	328
1924	4,331.44	75,131	242	26	1.52	5.8		3,398.49	52,866	89	50	3.19	6.4		4,237.88	11	183	23.16	342
Simcoe—																			
1915	351.67	5,227	35	....	....	6.7	None	1,386.89	26,852	61	....	....	5.1	None	766.42	8	.....	.....	153
1916	1,857.61	13,238	57	....	....	6.5		2,292.28	46,254	84	53	2.63	5.0		1,386.33	12	.....	.....	198
1917	1,346.19	25,468	79	31	1.65	5.3		3,054.71	71,756	103	64	2.74	4.3		1,819.98	16	89	20.45	.....
1918	1,544.94	29,766	103	27	1.41	5.1		3,134.81	75,588	111	59	2.44	4.1		2,012.87	16	97	20.75	230
1919	2,237.23	40,838	134	25	1.40	5.5		4,431.49	96,254	126	62	2.93	4.7		2,766.80	80	134	20.65	278
1920	2,960.86	63,962	176	30	1.40	4.6		5,036.58	131,406	136	80	3.09	3.8		2,856.90	20	155	18.43	332
1921	3,446.47	95,067	222	36	1.28	3.6		4,967.07	170,629	154	92	2.69	2.9		4,130.39	21	232	17.80	397
1922	4,194.50	160,517	277	54	1.40	2.6		5,631.93	216,105	181	108	2.81	2.6		6,160.26	24	314	19.62	482
1923	4,973.09	205,303	339	50	1.22	2.4		6,398.76	282,749	195	120	2.73	2.3		8,435.28	24	335	25.17	558
1924	6,668.31	315,844	454	66	1.40	2.1		8,184.06	391,682	208	161	3.38	2.1		10,151.40	26	377	26.91	688

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Smiths Falls—																			
1919	12,798.23	303,116	1,017	25	1.05	4.2	8	8,267.12	216,517	226	80	3.05	3.8	8	12,127.54	28	438	27.69	1,271
1920	19,399.20	.....	1,121	....	....	....		11,655.03	.....	240	....	....	....		22,392.75	31	668	33.50	1,394
1921	24,285.20	448,540	1,162	32	1.74	5.4		12,264.33	244,781	232	88	4.41	5.2		25,304.04	37	795	31.83	1,431
1922	24,402.79	513,494	1,294	35	1.66	4.7		14,260.12	228,143	245	78	4.99	6.2		25,074.49	36	787	31.86	1,575
1923	27,991.85	611,553	1,323	38	1.76	4.5		13,961.93	284,213	247	95	4.71	4.9		27,656.52	36	833	33.32	1,606
1924	28,677.50	665,440	1,393	41	1.76	4.3		14,495.01	284,211	247	96	4.89	5.1		23,393.41	40	742	31.54	1,680
Springfield—																			
1918	738.06	7,332	40	....	....	....	None	526.02	6,161	18	....	....	....	None	650.34	2	25	.....	60
1919	900.59	9,413	47	17	1.60	9.6		635.08	8,595	21	34	2.52	7.4		545.33	2	28	19.48	70
1920	961.07	10,813	50	18	1.60	8.9		697.17	8,281	21	33	2.75	8.4		648.72	2	28	23.17	73
1921	1,110.81	13,368	53	21	1.75	8.3		574.12	4,900	22	19	2.20	11.6		528.69	2	27	19.58	77
1922	1,216.56	15,720	64	23	1.75	7.7		589.43	5,709	24	21	2.14	10.3		701.33	3	33	21.25	91
1923	1,389.91	17,389	70	20	1.78	7.9		651.05	6,116	25	20	2.17	10.6		666.82	2	32	20.86	97
1924	1,398.55	21,275	74	24	1.62	6.7		724.34	9,767	23	34	2.51	7.4		754.08	2	32	23.56	99
Stamford Twp.—																			
1920	6,951.53	.....	673	....	....	....	None	.....	.....	27	....	....	....	None	7,276.54	11	.....	.....	711
1921	10,340.84	.....	770	....	....	....		.....	.....	20	....	....	....		6,937.46	9	.....	.....	799
1922	15,246.07	774,352	751	82	1.67	2.0		365.04	1,254	16	....	....	....		11,241.10	14	445	25.26	112
1923	18,250.90	847,910	856	82	1.77	2.1		1,022.41	15,414	12	107	7.10	6.6		10,171.53	11	431	23.59	879
1924	21,474.11	1,018,966	869	100	2.07	2.0		1,548.12	33,111	15	197	9.21	4.7		10,736.23	16	533	20.14	900

Stayner—																				
1913	158.48	.....	120	....	....	....		116.91	.....	30	....	....	....		301.86	2	.....	.....	152
1914	909.58	9,200	108	7	66	9.9		747.93	11,000	56	20	1.45	6.7		1,699.08	2	.....	.....	156
1915	995.47	11,845	106	9	78	8.4	Flat	933.55	13,725	56	20	1.39	6.8	Flat	1,694.94	2	.....	.....	164
1916	1,012.15	11,995	115	9	76	9.2		997.39	12,955	65	18	1.37	7.7		1,835.29	3	.....	.....	183
1917	1,109.46	13,883	124	10	78	7.9		957.56	17,169	59	23	1.29	5.6		1,009.88	5	44	22.95	188
1918	1,180.03	13,826	132	10	76	7.0		914.85	15,682	57	22	1.13	5.8		1,982.63	4	78	25.41	193
1919	1,368.49	24,969	134	14	85	6.1		1,334.50	21,766	60	30	1.85	6.1		3,382.97	5	134	25.23	199
1920	1,896.77	24,748	151	14	1.05	7.7		1,683.99	26,620	62	36	2.26	6.3		3,826.06	5	171	22.38	218
1921	2,534.35	40,043	164	20	1.29	6.3		2,301.30	34,034	65	44	2.95	6.8		3,006.88	9	126	23.86	238
1922	2,707.30	37,525	176	18	1.33	6.1		2,246.55	36,789	67	47	2.82	6.1		2,433.27	7	114	20.28	250
1923	3,169.66	42,621	203	19	1.39	7.3		1,805.88	29,887	54	46	2.78	6.0		2,830.60	8	108	26.20	315
1924	2,859.76	65,220	204	26	1.17	4.5		1,381.79	24,973	56	38	2.09	5.2		2,882.89	10	119	24.23	270
Stouffville—																				
1924	4,022.42	52,872	206	21	1.63	7.8		1,996.13	16,492	67	21	2.48	11.8		1,639.11	5	51	32.14	278
Stratford—																				
1912	6,942.56	.....	640	....	90	....	12+25	14,661.16	.....	316	....	3.86	....	12+25	8,834.40	76	.....	.....	1,032
1913	11,550.71	.....	1,042	....	1.02	....		17,072.61	.....	367	....	4.15	....		14,272.59	92	.....	.....	1,501
1914	15,180.91	269,459	1,403	18	1.03	5.5		16,336.30	345,639	396	76	3.55	4.7		16,519.24	99	.....	.....	1,898
1915	16,967.58	388,200	1,724	21	90	4.4		14,766.75	400,686	439	79	2.92	3.7		15,415.78	104	.....	.....	2,267
1916	20,108.76	553,441	1,993	26	90	3.6		14,803.08	601,616	463	110	2.75	2.5		23,506.12	103	.....	.....	2,559
1917	26,614.85	831,496	2,492	31	99	3.2		16,385.81	613,108	388	120	3.21	2.6		27,846.16	112	1,167	23.86	2,992
1918	29,314.17	1,047,437	2,626	34	95	2.7		15,261.26	518,122	399	109	3.23	2.9		27,845.41	118	1,234	22.56	3,143
1919	35,342.84	1,380,776	2,898	40	1.02	2.6		17,330.26	636,710	408	130	4.53	2.7		26,420.07	124	1,250	21.14	3,430
1920	41,679.50	1,956,442	3,193	51	1.09	2.1		19,050.82	779,670	423	154	3.75	2.4		34,923.07	137	1,618	21.58	3,753
1921	50,918.45	2,646,048	3,414	63	1.24	1.9		19,459.85	828,518	455	152	3.56	2.3		33,036.65	146	1,702	19.41	4,015
1922	64,796.40	3,768,062	3,652	89	1.53	1.7		21,947.00	1,111,986	477	201	3.96	2.0		32,619.11	157	1,696	19.23	4,286
1923	86,303.19	5,891,038	3,875	126	1.85	1.4		26,090.64	1,201,838	499	200	4.35	2.1		25,519.47	163	1,413	18.06	4,537
1924	127,044.76	6,414,723	4,036	135	2.68	2.0		44,026.63	1,165,241	532	188	7.12	3.8		36,946.19	169	1,735	21.29	4,737
Strathroy—																				
1915	3,380.78	36,200	233	....	....	9.3	12+25	4,701.76	50,469	147	.....	.....	9.3	12+25	700.49	5	.....	.....	385
1916	3,318.45	51,197	314	16	1.01	6.5		3,817.38	66,325	152	37	2.12	5.8		2,927.36	8	.....	.....	474
1917	4,355.25	71,509	375	17	1.05	6.1		3,554.88	62,205	153	34	1.94	5.7		4,138.79	11	175	23.65	539
1918	4,926.25	106,921	381	23	1.08	4.6		3,588.67	73,822	142	41	2.02	4.8		7,447.74	12	727	10.24	535
1919	5,589.48	112,946	417	23	1.12	4.9		4,228.41	89,732	147	51	2.40	4.7		7,064.29	13	258	27.38	577
1920	6,891.04	155,682	479	27	1.20	4.4		5,037.74	115,923	159	61	2.64	4.3		11,192.48	22	502	22.29	660
1921	7,927.50	205,236	537	32	1.23	3.9		5,436.85	122,041	165	62	2.75	4.4		11,655.19	23	442	26.37	725
1922	9,019.42	259,236	617	37	1.30	3.5		5,685.75	153,162	164	77	2.88	3.7		11,677.99	23	441	26.48	804
1923	10,366.64	338,245	650	44	1.33	3.0		5,985.14	172,329	173	83	2.88	3.4		12,460.15	24	469	26.56	847
1924	10,299.07	462,862	681	58	1.29	2.2		5,404.58	189,298	165	93	2.66	2.9		11,032.83	24	435	25.36	870

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial li ht service							Powe· service				Total number of consumers
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Sunderland—																				
	1915	794.83	.....	57	....	....	....	12.5	939.85	.....	36	....	....	....	12.5	.....	....	.....	.....	93
	1916	752.64	7,714	61	11	1.06	9.8		840.22	9,644	37	45	1.92	9.0		211.86	1	.....	.....	99
	1917	858.64	10,369	58	15	1.29	8.3		745.91	10,108	27	26	1.94	7.4		731.14	2	34	21.50	87
	1918	988.01	11,631	65	15	1.33	8.4		735.19	7,867	31	22	2.11	9.3		825.04	1	30	27.50	97
	1919	1,123.51	14,103	71	17	1.32	8.0		905.32	10,497	32	24	2.36	9.8		1,001.01	1	30	33.37	104
	1920	1,580.01	17,349	79	18	1.66	9.1		1,060.24	10,876	34	27	2.60	9.7		790.48	1	30	26.35	114
	1921	1,851.55	16,233	79	17	1.95	11.4		1,398.04	9,850	35	23	3.33	14.2		814.60	2	30	27.15	116
	1922	1,858.95	16,376	80	17	1.94	11.4		1,523.73	14,023	36	34	3.63	10.9		755.72	2	35	22.90	118
	1923	1,879.48	20,757	89	19	1.75	9.0		1,441.09	12,508	39	26	3.07	11.5		804.86	2	36	22.35	130
	1924	3,009.10	27,865	96	25	2.70	10.8		1,405.48	16,484	37	36	3.08	8.5		1,039.56	2	40	25.80	135
Sutton—																				
	1924	3,621.98	37,384	232	13	1.30	10.0		940.37	15,277	44	29	1.78	6.2		424.12	1	12	35.34	277
Tara—																				
	1918	428.00	.....	45	....	....	....	None	392.66	.....	34	....	....	....	None	352.49	1	.....	.....	80
	1919	601.28	9,807	59	14	85	6.1		694.94	11,526	38	24	1.52	6.0		519.73	3	27	19.24	100
	1920	1,093.36	16,329	71	19	1.28	6.7		1,047.54	13,127	42	26	2.08	8.0		950.40	5	46	20.66	118
	1921	1,824.49	22,922	81	24	2.54	7.9		1,787.89	15,682	39	34	3.82	11.4		1,134.69	6	.....	.....	126
	1922	2,226.18	.....	84	....	....	....		1,977.69	.....	37	....	....	....		1,120.91	5	32	35.03	126
	1923	2,074.95	.....	.....	.....	.....	.....		1,573.28	.....	.....	.....	.....	.....		1,102.58	4	39	28.27	.....
	1924	2,315.21	23,011	94	20	2.05	10.2		1,805.31	16,808	37	38	4.07	10.7		788.84	4	33	23.84	135
Tavistock—																				
	1917	1,155.03	.....	80	....	....	....	10	1,396.92	.....	64	....	....	....	10	1,915.65	2	.....	.....	146
	1918	1,258.12	13,089	114	10	92	9.6		1,014.49	11,047	58	16	1.46	9.2		10,303.82	3	284	36.29	175

1919	1,442.02	21,845	126	14	95	6.6		991.26	18,574	60	26	1.36	5.3		10,133.62	4	305	33.23	190
1920	1,806.64	31,384	139	19	1.08	5.7		1,015.70	21,082	64	29	1.32	4.6		8,593.94	4	298	28.84	207
1921	2,184.08	49,433	155	27	1.17	4.4		1,069.78	39,706	64	52	1.39	2.7		8,593.78	4	300	28.64	223
1922	3,131.34	83,513	201	39	1.47	3.7		1,129.37	48,305	62	64	1.46	2.3		6,626.92	4	249	26.61	267
1923	3,609.74	114,021	200	47	1.50	3.1		1,323.87	48,352	66	61	1.67	2.7		2,744.62	4	159	17.33	270
1924	3,996.35	152,489	203	66	1.64	2.5		1,663.40	48,677	66	61	2.10	3.4		2,916.92	4	134	21.77	273
Tecumseh—																			
1922	1,325.94	.....	279	...	...	...		541.16	.....	32	...	...	...		15.15	1	.....	.....	312
1923	6,184.85	69,521	302	19	1.70	8.8		1,833.70	24,251	33	61	4.63	7.5		150.04	1	7	21.43	336
1924	9,257.88	221,542	331	58	2.43	4.2		2,476.90	37,709	35	92	6.07	6.6		213.94	1	9	23.77	367
Teeswater—																			
1922	2,695.66	38,937	127	25	1.77	6.9		1,480.98	22,148	47	39	2.63	6.7		2,528.67	3	94	26.90	177
1923	2,890.60	52,740	136	32	1.77	5.4		2,030.58	32,980	60	45	2.83	6.1		3,011.49	3	107	28.14	199
1924	3,207.62	49,091	148	29	1.88	6.5		2,311.03	27,854	59	39	3.21	8.2		3,044.29	3	103	29.53	210
Thamesford—																			
1914	393.49	3,686	44	....	....	10.9	None	323.92	3,445	26	....	....	9.4	None	946.32	2	.....	.....	72
1915	374.34	6,676	59	9	78	8.6		481.78	5,886	26	12	1.20	8.2		423.21	2	.....	.....	87
1916	642.21	7,540	64	10	87	8.5		537.42	6,768	29	20	1.63	7.9		268.23	2	.....	.....	54
1917	646.83	6,973	63	9	86	9.3		588.64	6,827	28	20	1.75	8.6		682.43	3	41	16.64	99
1918	652.58	7,773	67	10	81	8.5		630.67	9,019	28	27	1.88	7.0		1,680.37	4	69	24.35	99
1919	820.10	8,993	69	11	1.12	9.1		819.62	10,572	27	33	2.53	7.7		3,727.03	4	69	38.22	100
1920	1,030.02	10,899	71	13	1.21	9.4		980.63	12,388	28	37	2.75	7.4		3,852.98	3	105	36.70	102
1921	1,127.26	13,113	80	14	1.17	8.6		1,003.40	13,575	27	42	3.10	7.4		4,009.68	3	104	38.55	110
1922	1,274.53	16,861	85	17	1.27	7.6		1,228.33	16,823	26	54	3.94	7.3		4,211.07	4	109	38.63	115
1923	1,345.98	18,637	90	17	1.25	7.2		1,212.44	17,875	27	55	3.74	6.7		3,976.75	6	112	35.50	123
1924	1,474.07	26,152	93	24	1.34	5.6		1,175.72	22,053	27	68	3.63	5.3		4,069.90	5	111	36.67	125
Thamesville—																			
1915	378.79	.....	107	...	...	...	9	283.36	.....	53	...	...	...	11	.....	....	.....	.....	160
1916	1,729.79	19,061	137	13	1.18	9.1		1,021.17	13,087	59	20	1.52	7.8		.....	....	.....	.....	196
1917	1,829.34	21,168	145	13	1.08	8.6		949.80	9,697	70	12	1.22	9.8		.....	....	.....	.....	215
1918	1,781.98	23,819	149	13	1.00	7.5		909.52	11,131	63	15	1.20	8.2		.....	....	.....	.....	213
1919	1,672.09	26,913	149	15	94	6.2		1,242.00	16,158	69	19	1.50	7.7		.....	....	.....	.....	218
1920	2,293.54	31,757	168	16	1.14	7.2		1,783.72	16,581	67	21	2.22	10.8		199.80	2	.....	.....	237
1921	2,907.81	36,542	183	17	1.32	8.0		2,578.52	24,263	66	31	3.26	10.6		2,556.55	4	64	39.95	253
1922	3,030.28	41,882	181	19	1.39	7.2		2,179.75	28,244	72	34	2.63	7.7		3,161.15	5	81	39.03	258
1923	3,013.98	51,037	196	21	1.20	5.9		2,264.50	42,347	83	45	2.43	5.4		3,081.16	6	90	23.24	285
1924	3,314.33	73,927	193	32	1.42	4.6		2,179.65	42,133	76	44	2.28	5.2		2,582.60	6	93	27.77	275
Thedford—																			
1922	1,027.74	.....	100	...	...	...		686.87	.....	33	...	...	...		365.28	1	.....	.....	134
1923	2,038.83	16,197	105	12	1.61	12.5		1,400.69	11,144	36	26	3.25	12.6		1,017.24	2	27	37.67	143
1924	2,184.91	24,387	104	19	1.75	9.2		1,408.02	15,611	35	37	3.35	9.1		781.12	3	27	28.93	142

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Thorndale—																			
1914	446.27	2,787	34	....	....	7.8	None	.....	2,989	18	....	....	7.8	None	329.27	1	.....	.....	53
1915	299.37	2,816	32	7	76	10.6		374.09	3,653	20	16	1.64	10.2		542.53	1	.....	.....	53
1916	328.67	3,597	33	9	84	9.1		403.01	3,709	21	16	1.64	10.9		459.79	1	.....	.....	55
1917	382.95	4,654	37	11	91	8.2		413.03	4,642	22	17	1.56	8.9		475.53	1	24	19.81	60
1918	434.89	5,754	41	12	92	7.5		404.27	5,302	23	19	1.49	7.6		2,114.60	2	64	33.04	66
1919	539.94	9,211	43	12	1.05	8.7		560.55	6,015	27	19	1.73	9.3		2,337.09	2	77	30.35	72
1920	716.05	7,115	46	13	1.30	10.0		715.49	9,269	27	29	2.21	7.7		3,455.34	2	86	40.18	75
1921	989.21	10,666	62	16	1.33	9.3		743.97	8,748	17	43	3.65	8.5		2,102.43	2	61	34.47	81
1922	1,056.69	11,787	55	17	1.52	8.8		668.49	8,098	25	26	2.65	8.3		1,838.18	1	54	34.04	81
1923	1,198.22	15,229	54	25	1.85	7.9		711.94	10,071	26	32	2.28	7.0		1,429.26	1	36	39.70	81
1924	1,239.34	22,756	65	32	1.73	5.5		737.35	7,262	21	33	2.61	7.8		1,319.48	1	33	29.98	87
Thornton—																			
1919	390.38	.....	31	....	....	....	None	158.36	.....	10	....	....	....	None	.....	.....	.....	.....	41
1920	564.08	.....	33	....	....	....		198.24	.....	10	....	....	....		.....	.....	.....	.....	43
1921	688.24	6,683	34	16	1.69	10.3		306.20	3,250	11	24	2.32	9.4		.....	.....	.....	.....	55
1922	786.81	7,816	38	18	1.82	10.1		330.93	2,431	10	20	2.75	13.2		.....	.....	.....	.....	48
1923	879.09	7,916	38	17	1.92	11.1		259.09	2,031	10	16	2.15	12.7		.....	.....	.....	.....	.....
1924	808.49	9,159	39	20	1.73	8.6		296.01	3,460	11	26	2.24	8.6		.....	.....	.....	.....	50
Thorold—																			
1922	12,100.76	558,497	985	47	1.02	2.2		4,986.80	234,313	172	113	2.41	2.1		2,590.78	5	89	29.51	1,162
1923	13,781.50	720,435	1,026	58	1.11	1.9		5,453.59	344,467	178	161	2.55	1.6		3,476.54	9	144	24.14	1,213
1924	15,833.36	699,907	1,086	55	1.25	2.3		5,702.15	345,837	181	161	2.65	1.6		3,512.53	8	149	23.58	1,275

Tilbury—																						
1915	979.57	.....	123	.....	.....	.....	10	1,476.53	.....	67	.....	.....	.....	10	.....	.....	.....	.....	190
1916	1,507.37	21,483	127	14	1.00	6.5		2,071.77	32,612	79	37	2.36	6.4		149.60	2	.....	.....	218
1917	1,555.59	20,600	132	13	1.00	7.6		2,038.56	27,335	80	29	2.12	7.5		423.28	5	22	19.24	217
1918	1,652.71	23,964	135	15	1.02	6.9		1,834.59	26,534	75	30	2.04	6.8		1,402.53	4	56	25.15	214
1919	1,918.60	30,305	143	18	1.12	6.3		2,279.49	34,939	91	32	2.09	6.5		1,889.69	5	77	24.54	239
1920	2,372.09	35,314	144	20	1.37	6.7		2,648.21	44,668	91	41	2.43	5.9		1,711.87	6	85	20.14	241
1921	3,279.86	50,279	193	22	1.42	6.5		3,457.17	54,960	89	51	3.24	6.3		4,745.94	8	168	28.25	290
1922	4,201.29	67,899	220	25	1.69	6.2		4,265.94	67,317	88	63	4.04	6.3		6,640.84	10	256	25.90	318
1923	4,551.36	96,109	255	31	1.48	5.6		4,461.85	76,723	97	65	3.83	5.8		8,799.72	11	333	26.42	363
1924	4,705.82	131,636	257	43	1.65	3.6		3,960.70	83,194	95	72	3.44	4.8		10,792.47	13	411	26.27	365
Fillsonburg —																						
1912	3,233.92	.....	200	.....	.....	.....	11+25	3,350.91	.....	128	.....	.....	.....	11+25	3,283.75	6	.....	.....	334
1913	2,796.57	29,115	254	10	1.03	9.6		4,677.38	66,049	143	41	2.87	7.0		4,763.15	17	.....	.....	414
1914	3,367.74	45,937	300	14	1.02	7.3		4,579.37	70,265	160	38	2.52	6.5		6,303.09	16	.....	.....	476
1915	3,203.51	55,346	348	14	83	5.7		4,236.42	74,564	161	38	2.19	5.7		5,619.15	15	.....	.....	524
1916	4,009.67	72,975	375	18	1.02	5.5		4,493.41	95,326	188	46	2.14	4.7		5,692.05	17	.....	.....	580
1917	5,237.69	97,606	400	21	1.13	5.4		4,758.14	96,044	165	45	2.25	5.0		7,935.07	20	451	17.59	585
1918	4,534.89	77,751	407	16	93	5.8		5,377.01	104,830	166	53	2.70	5.1		16,717.31	22	532	31.42	595
1919	4,971.07	110,613	441	21	94	4.5		5,573.12	136,175	178	64	2.61	4.1		23,917.76	22	781	30.63	641
1920	6,417.45	159,319	480	28	1.16	4.0		6,077.79	151,422	178	71	2.84	4.0		18,378.45	19	753	24.41	677
1921	7,160.17	178,122	527	28	1.13	4.0		6,679.06	174,255	189	77	2.94	3.8		10,084.24	19	536	18.81	735
1922	7,980 94	213,716	566	32	1.22	3.7		7,177.19	163,421	196	71	4.11	4.4		9,916.25	22	514	19.29	784
1923	8,947.95	288,605	633	38	1.18	3.1		7,538.05	205,886	172	99	3.65	3.6		13,045.34	24	567	23.02	829
1924	9,768.69	410,471	667	52	1.25	2.4		7,375.54	235,472	197	106	3.65	3.1		13,519.41	25	577	23.43	889
Toronto —																						
1912	201,554.74	.....	11,441	.....	.....	.....	8+25	*	.....	*	.....	.....	.....	12+25	225,451.55	518	.....	.....	11,959
1913	190,376.89	4,220,270	16,519	25	1.25	4.4		233,799.04	6,156,073	4,764	...	4.09	3.8		347,708.88	1,037	.....	.....	22,320
1914	289,645.45	6,240,882	23,181	27	1.22	4.5		305,534.31	7,683,589	6,276	116	4.61	3.9		483,681.15	1,494	.....	.....	30,951
1915	331,807.18	8,599,559	29,724	27	1.04	3.9		291,907.92	10,243,496	7,227	126	3.60	2.8		575,239.17	1,504	.....	.....	38,455
1916	225,181.19	11,250,291	34,347	29	89	3.1		272,243.06	11,491,577	7,406	131	3.10	2.4		612,918.32	1,707	.....	.....	43,460
1917	414,043.17	15,341,150	41,358	34	91	2.7		297,459.72	12,763,343	9,341	126	2.96	2.3		734,294.61	2,028	36,856	19.92	52,727
1918	451,824.59	18,068,947	42,558	36	89	2.5		294,653.18	13,025,770	9,113	117	2.66	2.2		907,886.95	2,034	46,159	19.66	53,705
1919	560,912.00	22,799,666	51,242	37	91	2.5		382,167.17	17,197,460	10,510	136	3.03	2.2		1,144,453.76	2,225	52,200	21.93	63,977
1920	729,364.33	33,567,358	57,685	51	1.11	2.2		507,285.14	22,452,782	11,307	171	3.87	2.2		1,158,639.12	2,390	57,000	20.33	71,382
1921	865,908.45	38,662,078	67,019	48	1.08	2.2		699,144.27	24,954,872	12,401	168	4.70	2.8		1,236,518.60	2,488	58,880	21.00	81,908
1922	1,073,539.05	51,689,146	76,985	59	1.24	2.1		852,286.95	30,402,527	13,684	198	5.55	2.7		1,368,884.30	2,659	60,615	22.58	93,328
†1923	1,627,943.88	84,345,839	102040	79	1.52	1.9		1,147,555.45	44,149,870	15,702	250	6.51	2.6		1,669,930.02	2,596	71,469	23.37	120338
1924	1,942,998.85	103,362,265	110169	81	1.53	1.9		1,314,432.44	51,370,509	17,925	255	6.51	2.6		1,724,925.90	2,802	76,585	22.52	130896

† Toronto Power Company taken over. These figures are for 25-cycle power only.

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Numbers of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Toronto Twp.—																			
1918	13,180.75	.....	280	....	....	....	None	.....	.....	.....	....	....	....	None	.....	....	.....	.....	280
1919	14,566.15	.....	258	....	....	....		.....	.....	.....	....	....	....		.....	....	.....	.....	258
1920	18,641.08	.....	398	....	....	....		.....	.....	.....	....	....	....		.....	12	.....	.....	410
1921	25,042.87	.....	573	....	....	....		.....	.....	.....	....	....	....		.....	12	204	.....	585
1922	27,068.08	435,808	798	53	3.29	6.2		.....	.....	.....	....	....	....		.....	11	131	....	809
1923	39,423.13	.....	925	....	....	....		.....	.....	.....	....	....	....		9,242.53	13	265	34.87	938
1924	38,350.74	.....	1,057	....	....	....		.....	.....	.....	....	....	....		7,644.31	13	247	30.95	1,070
Tottenham—																			
1919	1,323.68	10,434	79	11	1.40	12.7	Flat	984.93	9,125	46	17	1.78	10.8	Flat	.....	....	.....	.....	125
1920	1,528.86	19,560	82	19	1.55	7.8		1,011.40	11,000	41	23	2.09	9.8		.....	....	.....	.....	123
1921	2,181.09	25,684	103	21	1.77	8.5		1,335.34	13,089	47	23	2.37	10.2		217.57	2	6	36.26	152
1922	2,479.22	29,904	106	24	1.98	8.3		1,445.59	15,209	52	25	2.41	9.5		615.59	3	22	27.99	161
1923	2,572.00	32,089	112	23	1.91	8.0		1,317.92	13,431	50	22	2.19	9.8		665.93	3	30	22.19	165
1924	2,525.46	32,105	117	23	1.83	7.9		1,465.00	14,904	49	25	2.49	9.9		787.62	4	31	25.41	170
Trafalgar Twp.—																			
1924	7,855.14	182,608	146	101	4.48	4.4		1,000.49	13,031	2	543	41.68	7.7		1,399.10	12	514	27.22	160
Uxbridge—																			
1922	589.77	.....	127	....	....	....		669.36	.....	75	....	....	....		19.94	8	.....	.....	210
1923	4,320.73	44,039	178	20	2.02	9.8		4,131.97	39,357	76	44	4.54	10.4		1,424.26	11	51	27.92	265
1924	4,928.49	61,095	208	26	2.13	8.2		3,641.10	47,083	77	51	3.94	7.7		1,720.73	14	75	23.04	299

Vaughan Twp.—																				
1918	334.57	.....	30	....	....	....	None	124.50	.....	6	....	....	....	None	562.17	3	.....	.....	39
1919	549.48	6,945	42	14	1.09	7.9		150.03	1,490	8	14	1.65	11.8		1,972.79	7	86	22.94	57
1920	763.80	8,514	47	16	1.44	8.9		152.45	1,682	10	16	1.41	9.1		2,059.19	6	79	25.06	63
1921	1,145.99	10,309	53	16	1.80	11.1		234.78	2,121	10	17	1.96	11.1		2,633.87	4	83	31.73	67
1922	1,436.54	12,225	53	19	2.26	11.7		320.49	2,915	13	21	2.32	10.9		2,581.59	4	82	31.48	70
1923	1,677.29	.....	63	....	2.20	....		385.28	.....	14	....	2.29	....		3,149.36	5	84	37.49	82
1924	3,785.68	.....	78	....	....	....		545.06	.....	14	....	....	....		4,211.09	7	135	31.19	99
Victoria Harbour—																				
1915	105.79	.....	56	....	....	....	Flat	117.85	.....	34	....	....	....	Flat	.....	....	.....	.....	90
1916	642.29	.....	65	....	....	....		1,171.37	.....	31	....	....	....		.....	....	.....	.....	96
1917	666.04	9,230	69	11	80	7.2		1,130.48	11,721	38	26	2.48	9.6		.....	....	.....	.....	107
1918	735.97	12,403	71	15	86	5.9		1,069.34	13,830	27	42	3.30	7.7		.....	....	.....	.....	98
1919	931.86	15,485	78	16	98	6.0		1,299.03	17,292	33	44	3.28	7.5		.....	....	.....	.....	111
1920	1,222.63	26,137	89	26	1.21	4.9		1,470.72	23,053	39	53	3.40	6.3		.....	....	.....	.....	128
1921	1,593.60	29,255	97	25	1.37	5.4		1,607.34	32,090	36	74	3.72	5.0		.....	....	.....	.....	133
1922	1,943.27	26,107	116	28	1.52	5.4		1,769.22	18,860	40	41	3.88	9.4		.....	....	.....	.....	156
1923	2,103.49	34,126	127	22	1.37	6.1		1,434.96	22,761	38	49	3.14	6.3		.....	....	.....	.....	165
1924	2,025.54	41,344	145	25	1.24	5.0		1,047.42	19,428	38	43	2.30	5.3		.....	....	.....	.....	183
Walkerville—																				
1914	3,037.96	.....	790	....	....	....	15—5	1,492.84	.....	175	....	....	....	15-10-5	6,042.11	75	.....	.....	1,040
1915	13,036.98	241,771	1,159	21	1.12	5.4		7,836.93	157,198	195	70	3.49	4.4		39,523.81	72	.....	.....	1,421
1916	18,813.06	391,629	1,513	27	1.34	4.8		12,104.72	309,727	216	126	4.61	3.9		77,003.07	75	.....	.....	1,804
1917	23,683.25	483,770	1,883	24	1.16	4.9		15,350.67	358,594	225	136	5.81	4.3		80,075.42	71	2,408	33.25	2,179
1918	27,570.83	532,075	1,970	23	1.16	5.2		16,116.67	372,896	230	137	5.90	4.3		101,125.84	67	2,727	37.08	2,267
1919	34,159.82	638,269	2,347	23	1.21	5.3		18,045.74	471,895	265	150	5.76	3.8		84,601.16	73	2,676	31.60	2,685
1920	40,884.48	1,432,929	2,904	45	1.29	2.9		22,432.85	618,709	336	171	6.23	3.6		109,892.78	78	3,963	27.80	3,318
1921	58,792.95	1,824,842	3,171	48	2.54	3.2		21,605.39	569,628	398	120	4.52	3.8		117,511.33	81	4,217	27.87	3,650
1922	60,340.85	2,266,468	1,486	81	2.16	2.6		19,991.66	583,237	241	152	5.21	3.4		135,181.47	77	4,534	29.81	1,804
1923	52,043.44	2,522,255	1,796	117	2.41	2.1		21,187.15	767,562	246	260	7.51	2.7		147,323.71	72	4,918	29.95	2,114
1924	64,338.96	3,601,641	1,885	163	2.91	1.8		22,903.80	977,363	253	326	7.63	2.3		114,908.43	77	4,038	28.45	2,215
Wallaceburg—																				
1915	4,079.74	56,482	368	....	....	7.2	11	4,239.30	63,747	161	....	....	6.6	10	87.32	2	.....	.....	531
1916	5,095.45	68,988	438	15	1.05	7.4		4,589.30	67,718	154	22	1.48	6.8		5,866.32	5	.....	.....	593
1917	6,077.20	84,311	493	15	1.09	7.2		4,259.72	92,718	157	49	2.29	4.6		13,218.75	16	415	31.85	662
1918	6,596.51	97,575	527	15	1.04	6.8		3,895.96	66,589	169	33	1.75	5.9		17,475.36	18	504	34.67	714
1919	8,825.29	134,986	603	19	1.22	6.5		5,366.66	190,152	174	91	2.57	2.8		25,597.73	28	732	34.97	805
1920	11,021.73	188,628	621	26	1.50	5.8		7,115.48	234,535	179	110	3.35	3.0		32,236.49	26	958	33.35	826
1921	11,703.39	235,752	715	28	1.36	5.0		7,363.40	164,547	193	71	3.18	4.5		26,193.45	36	910	28.78	944
1922	12,308.24	278,039	737	32	1.42	4.4		6,886.10	155,371	181	69	3.07	4.4		33,165.71	31	1,149	28.86	949
1923	12,875.61	351,084	812	46	1.33	2.9		6,599.17	170,844	174	82	3.16	3.9		37,826.89	29	1,276	29.64	1,015
1924	12,262.84	443,152	785	46	1.28	2.8		6,178.47	175,684	183	82	2.88	3.5		45,425.27	25	1,443	31.48	993

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Wardsville—																			
1922	794.73	5,541	41	11	1.62	14.3		382.33	3,052	15	17	2.12	12.5		.....	....	.....	.....	56
1923	803.19	5,346	43	10	1.55	15.0		418.46	3,699	16	19	2.17	11.3		.....	....	.....	.....	59
1924	887.66	8,173	43	16	1.72	10.8		447.16	4,889	15	27	2.48	9.2		.....	....	.....	.....	58
Warkworth—																			
1924	2,053.79	22,722	58	33	2.95	8.9		1,226.00	8,349	27	26	3.78	14.5		.....	....	.....	.....	85
Waterdown—																			
1912	774.40	.....	41	....	....	....	None	340.00	.....	20	....	....	....	None	614.42	2	.....	.....	63
1913	1,003.09	.....	70	....	....	....		361.20	.....	34	....	....	....		917.65	2	.....	.....	106
1914	1,054.13	13,360	71	16	1.25	7.9		535.83	8,321	34	20	1.31	6.5		1,011.38	5	.....	.....	110
1915	1,202.41	18,017	84	19	1.30	6.7		567.65	8,493	30	23	1.48	6.7		1,207.80	7	.....	.....	121
1916	1,218.86	18,622	93	18	1.15	6.5		575.10	8,944	32	24	1.55	6.4		1,149.78	6	.....	.....	131
1917	1,317.48	18,025	101	15	1.13	7.3		529.70	7,887	31	21	1.43	6.7		1,232.89	4	85	14.50	136
1918	1,450.47	26,308	105	21	1.15	5.5		529.53	9,768	33	25	1.34	5.4		1,163.48	4	82	14.19	142
1919	1,828.47	24,000	127	16	1.20	7.6		595.30	8,400	33	21	1.50	7.1		1,401.58	3	67	20.92	163
1920	2,167.44	30,150	134	19	1.38	7.1		609.00	7,750	31	20	1.59	8.0		1,487.72	3	80	18.60	168
1921	2,353.26	47,413	154	26	1.24	5.0		664.53	15,236	36	35	1.54	4.4		1,137.87	4	77	14.78	194
1922	2,488.49	61,548	148	34	1.37	4.0		613.00	11,458	31	31	1.65	5.3		1,075.13	3	74	14.53	182
1923	2,585.03	59,867	170	29	1.27	4.1		657.78	16,050	33	40	1.68	4.0		1,329.07	4	78	17.03	207
1924	2,927.21	78,725	185	37	1.37	3.7		722.74	17,176	35	42	1.77	4.2		1,437.47	4	85	16.91	224
Waterford—																			
1915	685.22	.....	75	....	....	....	10	546.08	.....	40	....	....	....	10	.....	....	.....	.....	115
1916	1,112.28	14,220	99	14	1.08	7.8		796.50	9,827	42	20	1.62	8.1		1,007.74	2	.....	.....	143
1917	1,369.35	17,445	100	15	1.14	7.8		807.28	11,938	42	24	1.21	6.8		4,030.85	1	85	47.54	143

1918	1,501.34	19,613	122	13	1.03	7.7		831.42	13,075	46	25	1.51	6.4		3,687.15	2	85	43.38	170
1919	1,874.15	37,321	149	21	1.05	5.0		1,003.75	20,737	47	37	1.78	4.8		3,921.69	3	105	37.34	199
1920	2,503.53	39,489	171	21	1.30	6.0		977.72	25,277	50	44	1.70	3.9		3,345.94	5	105	31.60	226
1921	2,957.14	68,585	203	28	1.21	4.3		1,135.31	25,104	49	43	1.93	4.5		2,493.18	7	83	30.04	259
1922	3,190.10	77,886	229	25	1.04	4.1		1,162.48	29,815	55	45	1.76	3.8		3,678.35	9	91	40.42	293
1923	3,632.90	102,660	260	32	1.16	3.5		1,151.97	35,664	53	56	1.81	3.2		4,302.25	11	148	29.06	324
1924	4,045.94	182,030	269	57	1.27	2.2		1,011.78	49,439	63	71	1.45	2.0		4,455.51	12	144	30.95	344
Waterloo—																				
1912	4,057.46	.....	239	.....	.....	.....	12+25	4,524.93	.....	112	.....	.....	.....	12+25	11,545.93	35	.....	.....	386
1913	4,263.66	69,576	321	21	1.27	6.1		5,098.42	87,718	125	62	3.58	5.8		14,970.14	44	.....	.....	490
1914	4,723.94	85,199	430	19	1.05	5.5		4,825.22	98,924	153	59	2.90	5.0		13,282.14	51	.....	.....	634
1915	5,401.82	106,570	524	19	94	5.1		5,284.87	107,821	162	57	2.80	4.9		15,125.32	53	.....	.....	739
1916	5,454.60	145,196	592	22	81	3.8		4,750.09	130,418	150	69	2.54	3.6		17,905.45	50	.....	.....	792
1917	6,562.98	195,770	694	25	85	3.4		5,097.38	144,543	155	55	2.79	3.5		18,773.17	59	1,017	18.46	908
1918	7,157.81	232,962	735	26	81	3.1		4,738.43	132,621	155	71	2.55	3.6		20,613.60	50	1,186	17.38	940
1919	8,771.46	305,803	830	31	88	2.9		5,347.03	176,953	161	92	2.78	3.0		23,399.07	66	1,274	18.37	1,057
1920	11,943.47	512,612	995	47	1.09	2.3		5,488.04	234,843	169	118	2.77	2.3		27,011.12	68	1,451	18.60	1,232
1921	14,931.02	653,123	1,091	50	1.14	2.3		7,125.48	298,664	172	145	3.45	2.4		26,882.41	68	1,455	18.47	1,331
1922	19,267.15	990,570	1,200	72	1.40	1.9		8,090.25	335,694	178	160	3.80	2.4		33,108.68	52	1,507	21.97	1,430
1923	24,528.74	1,693,394	1,275	110	1.60	1.4		9,101.69	412,138	185	190	4.09	2.2		41,540.47	72	1,737	23.91	1,532
1924	28,786.94	1,852,464	1,379	116	1.81	1.6		11,647.41	497,428	193	219	5.14	2.3		41,420.25	72	1,660	24.95	1,644
Watford—																				
1918	1,544.91	20,173	108	16	1.20	7.6	Flat	1,324.56	18,173	70	21	1.57	7.2	10+25	1,542.04	4	64	24.09	182
1919	1,905.65	23,042	118	16	1.34	8.3		1,779.86	16,293	60	23	2.47	10.9		2,154.95	5	63	34.20	183
1920	2,332.72	26,686	136	18	1.53	8.5		2,160.32	20,679	70	27	2.76	10.5		2,305.80	7	80	29.00	213
1921	2,873.44	30,714	154	17	1.55	9.3		2,620.52	29,233	76	32	2.87	9.0		2,808.30	8	85	33.04	238
1922	3,118.16	36,865	201	18	1.47	8.5		2,880.90	30,769	76	34	3.16	9.4		3,227.88	9	97	33.27	286
1923	3,740.23	59,745	215	23	1.44	6.2		2,856.12	29,326	73	33	3.26	9.7		2,727.08	8	82	33.25	296
1924	4,158.80	88,087	229	33	1.56	4.7		2,960.33	40,973	80	44	3.20	7.3		2,103.19	9	73	28.81	318
Waubaushene—																				
1915	516.34	7,296	49	12	88	7.3	None	220.50	2,979	15	17	1.22	7.2	None	32.28	1	.....	.....	65
1916	646.58	8,233	58	13	1.01	7.9		496.47	7,534	20	36	2.37	6.6		49.52	1	.....	.....	79
1917	691.56	8,602	64	11	94	8.0		455.62	8,588	17	40	2.23	5.3		36.85	1	3	12.28	82
1918	702.19	10,124	64	14	91	6.9		494.76	10,988	16	57	2.58	4.5		21.49	1	.....	.....	81
1919	735.40	11,457	66	14	93	6.7		266.34	4,951	17	24	1.31	5.4		41.10	2	.....	.....	85
1920	1,050.26	13,959	71	17	1.28	7.5		478.46	7,344	18	28	2.49	6.4		70.49	1	5	14.10	94
1921	1,324.12	18,023	69	21	1.58	7.5		640.36	9,479	16	46	3.14	6.8		112.73	3	10	.....	88
1922	1,368.50	18,011	70	22	1.63	7.6		557.83	9,035	17	47	2.91	6.2		167.97	3	19	.....	90
1923	1,315.55	19,717	90	18	1.21	6.6		483.29	8,190	19	35	2.11	5.9		270.17	4	25	10.80	113
1924	1,291.80	22,828	98	20	1.15	5.7		443.40	9,870	19	44	1.95	4.4		363.63	4	23	15.81	121

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
		$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Welland—																				
	1913	1,369.67	.....	408	....	.....	....	8+25	558.46	.....	53	....	.....	....	8+25	4,307.21	18	.....	.....	479
	1914	4,411.20	117,328	492	22	82	3.7		1,676.38	64,449	53	100	2.64	2.6		8,305.71	23	.....	.....	568
	1915	4,643.16	154,534	467	27	81	3.0		1,600.79	69,340	57	105	2.42	2.3		38,541.88	23	.....	.....	547
	1916	4,800.06	154,706	536	26	79	3.1		1,580.48	94,582	75	141	2.40	1.7		78,184.81	24	.....	.....	635
	1917	5,584.56	243,723	593	36	82	2.3		2,034.85	156,083	94	155	2.02	1.3		96,449.82	23	5,985	16.12	710
	1918	7,662.93	316,947	767	38	93	2.4		2,593.74	218,721	120	170	2.02	1.1		93,792.63	28	.....	.....	.....
	1919	11,262.98	642,963	985	54	95	1.7		3,678.46	329,736	145	190	2.11	1.1		60,784.43	33	4,282	14.20	1,163
	1920	14,065.49	895,770	1,092	72	1.12	1.6		5,126.13	350,096	172	183	2.69	1.4		55,825.21	34	4,284	13.03	1,298
	1921	18,307.67	1,291,322	1,324	81	1.15	1.4		5,955.83	444,103	211	175	2.35	1.3		43,112.95	44	4,192	10.28	1,579
	1922	21,657.48	1,542,357	1,325	97	1.36	1.4		5,827.96	469,884	213	185	2.29	1.2		42,586.24	51	3,285	12.66	1,589
	1923	26,285.40	1,696,274	1,440	98	1.52	1.5		7,698.72	471,395	259	151	2.47	1.6		31,693.68	56	1,583	20.02	1,755
	1924	28,780.82	2,079,725	1,918	103	1.43	1.4		8,282.89	602,467	280	186	2.56	1.4		35,914.55	41	1,677	21.41	2,239
Wellesley—																				
	1917	642.52	7,181	68	9	79	9.0	None	353.33	3,393	28	10	1.05	10.4	None	2,784.78	3	82	33.96	99
	1918	677.43	8,028	65	10	87	8.4		415.73	7,198	25	24	1.38	5.8		4,351.11	3	120	36.26	93
	1919	747.84	9,710	69	12	90	7.7		524.60	12,542	27	39	1.62	4.2		4,253.22	3	119	35.74	99
	1920	857.83	11,307	76	12	98	7.6		524.94	11,270	30	31	1.45	4.7		4,180.31	3	118	35.40	109
	1921	1,065.38	14,638	82	15	1.08	7.3		568.02	12,893	30	36	1.58	4.4		4,003.07	4	117	34.21	116
	1922	1,218.98	19,222	88	19	1.20	6.3		626.02	14,624	35	38	1.63	4.3		4,332.93	5	119	36.41	128
	1923	1,363.47	24,229	91	22	1.24	6.0		820.60	17,561	33	44	2.07	4.6		4,790.83	3	124	38.63	127
	1924	1,445.36	31,230	97	28	1.28	4.6		836.40	14,009	31	36	2.18	6.0		4,867.43	5	124	39.25	133
Wellington—																				
	1920	1,737.62	17,084	125	11	1.15	10.1	Flat	1,362.42	17,012	43	33	2.61	8.0	Flat	1,503.26	3	51	29.48	171
	1921	2,611.66	34,813	166	17	1.27	7.5		1,199.05	15,195	46	27	2.10	7.8		1,736.95	1	56	31.02	213

1922	3,092.49	40,654	176	20	1.51	7.6		1,340.74	17,102	53	29	2.23	7.8		1,842.93	5	58	31.77	234
1923	3,089.36	50,118	190	21	1.35	6.1		1,948.27	28,567	42	56	3.86	6.8		2,300.79	5	70	32.00	237
1924	3,742.91	56,903	212	24	1.55	6.5		1,627.13	27,287	48	50	3.01	6.0		2,422.66	7	82	29.54	267
West Lorne—																				
1917	578.98	.....	54	....	....	....	Flat	602.00	.....	40	....	....	....	Flat	.....	....	.....	.....	94
1918	759.87	6,884	66	9	96	11.0		649.68	7,917	44	15	1.23	8.2		59.38	1	.....	.....	111
1919	991.90	.....	66	....	....	....		873.46	.....	44	....	....	....		360.44	1	8	45.05	111
1920	1,286.61	.....	.....	.....	.....	.....		1,253.45	.....	.....	.....	.....	.....		4,838.27	....	.....	.....	.....
1921	1,630.54	21,954	110	17	1.23	7.5		1,356.84	21,503	54	33	2.09	6.3		6,008.65	3	157	38.27	167
1922	1,707.26	23,500	120	17	1.24	7.3		1,469.24	22,700	54	35	2.27	6.5		6,413.57	3	181	35.50	177
1923	1,828.90	26,729	143	15	1.06	6.8		1,662.45	27,165	55	41	2.25	6.1		7,192.16	3	207	32.86	202
1924	1,903.28	37,734	152	21	1.07	5.1		1,636.27	39,567	54	61	2.53	4.2		7,900.64	4	221	35.74	210
Weston—																				
1912	3,979.81	.....	225	....	....	....	7.2+	750.00	.....	15	....	....	....	7.2+	1,674.28	4	.....	.....	344
1913	4,117.20	.....	360	....	....	....	22.5	1,475.74	.....	35	....	....	....	22.5	6,166.97	6	.....	.....	400
1914	3,741.84	79,766	352	17	80	4.7		1,599.97	26,774	78	40	2.38	6.0		4,958.59	10	.....	.....	440
1915	4,407.36	96,186	441	21	93	4.6		1,305.90	27,564	90	27	1.30	4.7		4,798.33	9	.....	.....	540
1916	5,477.65	135,272	475	25	1.00	4.0		1,407.31	31,898	88	30	1.13	3.8		5,202.84	11	.....	.....	574
1917	5,942.00	155,303	542	24	97	3.8		1,467.63	35,800	83	35	1.44	4.1		16,420.90	12	850	19.32	637
1918	6,288.15	201,658	541	31	97	3.1		1,403.92	45,480	94	43	1.32	3.1		19,578.73	11	882	22.19	646
1919	7,453.63	310,258	667	39	93	2.4		1,819.82	65,319	108	50	1.40	2.8		20,861.85	17	936	22.29	792
1920	9,047.65	363,877	745	42	1.06	2.2		2,125.38	66,279	104	52	1.67	3.2		25,110.01	13	927	27.00	862
1921	10,086.61	626,817	1,030	51	82	1.6		2,183.96	76,122	120	53	1.51	2.9		19,057.66	14	999	19.08	1,164
1922	14,808.44	724,340	1,150	55	1.13	2.0		2,484.85	95,766	130	64	1.66	2.6		27,737.15	16	1,276	21.72	1,296
1923	21,369.90	1,104,178	1,048	87	1.70	1.9		3,375.89	135,817	135	83	2.08	2.4		36,552.82	17	1,593	22.94	1,200
1924	19,971.05	1,255,554	1,474	83	1.32	1.6		3,566.53	163,575	157	93	2.04	2.2		40,352.62	20	1,616	24.97	1,651
Wheatley—(9 months)																				
1924	2,085.13	.....	120	....	....	....		2,078.71	.....	53	....	....	....		691.12	1	.....	.....	174
Williamsburg—																				
1915	403.72	.....	44	....	....	....	None	139.26	.....	9	....	....	....	None	.....	1	.....	.....	54
1916	568.66	7,392	41	14	1.11	7.7		224.29	3,934	9	36	2.08	5.7		285.73	1	.....	.....	51
1917	551.07	7,003	42	16	1.09	7.9		280.09	3,347	10	30	2.33	8.4		256.38	1	9	28.48	53
1918	547.71	6,798	44	13	1.04	8.1		313.21	3,915	11	30	2.37	8.0		205.51	1	15	13.70	56
1919	785.76	7,334	42	15	1.49	10.0		312.45	5,981	14	36	1.86	5.2		334.03	2	18	18.50	58
1920	759.05	7,842	41	16	1.54	9.7		253.05	4,506	7	41	1.75	5.5		386.63	2	22	17.57	50
1921	926.67	11,363	47	19	1.58	8.3		439.04	3,722	12	33	3.05	9.2		230.38	1	9	25.60	80
1922	1,091.67	10,985	46	20	1.74	8.7		541.37	5,674	14	36	3.47	9.6		257.92	1	14	18.42	61
1923	893.22	11,636	45	21	1.65	7.6		530.32	7,254	16	40	2.81	7.0		217.32	1	16	13.58	62
1924	899.53	13,565	45	25	1.67	6.7		663.81	9,148	16	48	3.46	7.2		222.46	1	17	13.40	62

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Numbers of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Winchester—																			
1914	1,672.09	.....	103	.....	.....	.....	15	1,300.00	.....	50	.....	.....	.....		.....	.....	.....	.....	153
1915	1,698.40	28,610	120	21	1.27	5.9		1,336.85	17,550	30	50	2.23	7.6	15	.....	1	.....	.....	171
1916	1,812.29	36,931	135	24	1.18	5.4		1,364.47	21,999	46	38	2.37	6.2		227.52	1	.....	.....	182
1917	2,330.67	36,311	162	20	1.31	6.4		1,546.53	17,564	47	31	2.58	8.8		438.22	1	20	21.91	210
1918	2,595.85	44,875	174	21	1.24	5.8		1,493.85	20,577	47	36	2.65	7.3		382.03	1	20	19.10	222
1919	3,086.06	62,282	182	29	1.41	4.9		1,690.89	26,445	47	47	2.98	6.4		444.94	2	25	17.79	231
1920	3,808.56	83,871	192	36	1.61	4.5		2,242.15	38,060	47	66	4.00	5.8		569.08	2	25	14.23	241
1921	4,987.06	80,842	212	32	1.96	6.2		2,925.86	29,833	49	51	4.97	9.8		595.07	2	25	23.80	263
1922	5,754.06	77,677	230	29	2.17	7.4		2,731.95	31,810	52	53	4.55	8.6		698.10	2	25	27.92	284
1923	6,124 53	89,708	253	29	2.01	6.8		2,558.82	33,050	58	61	3.67	7.7		829.65	2	25	33.18	313
1924	4,703.97	116,772	243	39	1.58	4.1		2,078.22	38,855	57	57	3.04	5.3		1,153.72	3	48	24.08	303
Windsor—																			
1914	3,143.41	.....	1,802	.....	.....	.....	12	1,107.38	.....	257	.....	.....	.....	8	9.77	10	.....	.....	2,069
1915	23,161.57	468,386	2,519	18	89	4.9		12,009.99	309,757	377	82	3.16	3.9		3,734.81	43	.....	.....	2,939
1916	35,565.79	726,442	3,180	21	1.04	4.9		16,831.60	465,683	439	95	3.44	3.6		7,370.82	66	.....	.....	3,685
1917	48,913.80	1,087,029	3,882	26	1.15	4.5		21,257.15	590,977	471	108	3.89	3.6		15,362.93	97	807	19.04	4,450
1918	60,080.51	1,422,096	4,415	27	1.13	4.2		21,751.80	626,579	484	108	3.75	3.5		27,574.13	101	1,205	22.88	5,000
1919	78,038.66	1,990,644	5,383	31	1.21	3.9		27,032.01	893,920	584	128	3.86	3.0		39,468.90	136	1,609	24.53	6,103
1920	144,209.01	4,496,116	8,700	53	1.71	3.2		75,244.64	2,340,661	1,220	216	7.20	3.2		156,928.21	273	5,549	28.28	10,193
1921	181,822.04	6,000,528	9,731	51	1.56	3.0		99,612.26	3,235,758	1,448	186	5.73	3.1		146,724.93	341	6,169	23.78	11,520
1922	210,050.86	8,197,159	10,450	68	1.73	2.6		103,421.01	3,799,633	1,472	217	5.90	2.7		199,445.92	321	6,958	28.64	12,243
1923	358,709.20	13,627,976	12,021	94	2.48	2.6		123,631.38	5,229,797	1,441	303	7.14	2.3		227,595.34	311	7,342	30.99	13,773
1924	323,851.35	17,494,259	11,263	125	2.32	1.9		141,192.25	6,007,751	1,473	341	8.07	2.4		180,122.27	333	7,020	25.66	13,069

Wingham—																				
1922	7,072.58	87,067	384	19	1.53	8.1		7,648.64	70,902	156	38	4.09	10.8		11,044.78	20	368	30.01	560
1923	8,068.34	132,612	410	26	1.63	6.0		7,663.32	107,274	156	57	4.09	7.1		11,951.79	23	413	28.93	589
1924	8,423.91	166,923	425	33	1.68	5.1		7,501.40	120,501	151	66	4.09	6.2		12,547.96	23	420	29.87	599
Woodbridge—																				
1915	367.49	4,878	42	.....	.....	7.5	None	443.53	4,911	33	.....	.....	9.0	None	498.44	2	.....	.....	77
1916	507.10	7,059	58	13	89	7.0		556.82	7,048	33	17	1.40	7.9		2,221.33	7	.....	.....	98
1917	698.53	10,180	69	14	92	6.9		579.56	13,356	35	33	1.42	4.3		2,384.67	6	74	32.25	110
1918	809.54	12,013	74	13	91	6.7		590.37	10,263	34	25	1.45	5.8		2,620.39	9	92	28.48	117
1919	905.44	14,424	85	14	89	6.3		628.07	11,951	40	25	1.31	5.2		4,167.78	5	129	32.31	130
1920	1,053.78	21,867	98	20	95	5.0		672.50	14,602	40	30	1.40	4.6		5,716.29	5	155	36.88	143
1921	1,296.84	28,925	115	21	94	4.5		748.34	18,654	36	43	1.73	4.0		3,411.24	5	149	22.89	156
1922	1,538.54	33,060	137	22	1.02	4.6		854.75	19,044	42	41	1.83	4.5		3,945.84	5	164	24.06	184
1923	1,992.80	47,979	151	26	1.16	4.1		1,083.35	33,370	49	56	1.84	3.2		4,417.52	6	176	25.09	206
1924	2,241.89	75,072	163	40	1.19	3.0		897.02	34,778	45	62	1.59	2.6		4,676.54	6	177	26.42	214
Woodstock—																				
1912	4,914.92	.....	464	.....	.....	.....	8+20	13,316.02	.....	265	.....	.....	.....	8+20	21,087.61	43	.....	.....	772
1913	6,495.02	100,000	636	17	1.08	6.5		12,942.32	298,000	282	77	3.95	5.2		20,262.52	55	.....	.....	973
1914	8,807.40	169,054	949	21	1.08	5.2		11,610.14	289,982	337	78	2.12	4.0		19,833.26	57	.....	.....	1,343
1915	10,472.14	230,297	1,099	20	88	4.5		11,718.95	371,787	360	90	2.80	3.1		20,742.18	62	.....	.....	1,521
1916	11,205.71	288,201	1,224	21	80	3.9		12,983.32	503,977	372	114	2.95	2.6		23,721.92	72	.....	.....	1,668
1917	12,216.48	341,160	1,363	22	79	3.6		12,573.08	554,660	387	122	2.76	2.3		23,191.47	66	2,130	.....	1,816
1918	13,901.00	413,453	1,418	25	82	3.3		11,087.25	480,092	369	108	2.50	2.3		24,020.63	68	1,427	16.83	1,855
1919	14,748.02	480,235	1,631	26	75	3.1		12,452.68	567,513	388	128	2.34	2.1		24,473.54	74	1,420	17.23	2,093
1920	22,542.71	923,186	1,850	44	1.08	2.4		14,832.22	720,766	400	153	3.14	2.1		27,048.49	77	1,682	16.08	2,237
1921	25,103.13	1,045,124	2,060	42	1.02	2.4		15,988.83	880,382	409	179	3.26	1.8		28,355.47	76	2,557	11.09	2,545
1922	32,422.51	1,619,099	2,209	63	1.27	2.0		19,033.09	970,453	423	194	3.81	2.0		30,539.85	79	1,976	15.46	2,711
1923	40,323.84	2,416,063	2,314	87	1.66	1.9		20,615.27	1,100,550	421	217	4.08	1.9		40,292.53	84	1,983	20.31	2,819
1924	47,519.61	2,892,749	2,409	102	1.68	1.6		22,608.94	1,237,879	428	242	4.43	1.8		42,582.35	86	2,048	20.79	2,923
Woodville—																				
1915	324.34	.....	35	.....	.....	.....	12.5	563.68	.....	28	.....	.....	.....	12.5	1,149.17	3	.....	.....	66
1916	496.52	5,049	41	9	92	9.8		512.07	6,618	24	21	1.62	7.7		1,185.54	3	.....	.....	68
1917	689.70	7,741	51	14	1.25	8.9		591.94	8,512	23	31	2.15	7.0		1,072.28	3	50	21.45	77
1918	722.80	7,373	50	12	1.20	9.8		535.67	6,920	26	26	1.55	7.7		1,152.77	3	50	23.06	79
1919	847.09	10,067	58	15	1.22	8.4		637.49	9,434	27	29	1.97	6.7		1,218.70	3	50	24.36	88
1920	1,423.96	14,060	80	17	1.72	10.1		1,122.12	11,569	25	37	3.56	9.6		1,296.75	3	50	25.93	108
1921	2,195.02	20,723	84	21	2.18	10.6		1,330.14	11,580	28	35	3.96	11.5		1,846.69	3	50	36.93	115
1922	2,079.40	20,585	87	20	2.04	10.1		1,341.09	13,940	29	41	3.99	9.6		1,470.02	3	50	29.40	119
1923	2,068.96	27,029	90	25	1.91	7.6		1,346.33	10,579	29	30	3.86	12.7		1,855.48	3	56	33.15	120
1924	2,559.15	31,788	90	29	2.37	8.2		1,326.80	17,167	27	51	3.95	7.7		1,566.83	3	44	35.77	120

STATEMENT "D"—Concluded

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality / Year	Domestic service							Commercial light service							Power service				Total number of consumers
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	
	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.	kw-hrs.		kw-hr.	$ c.	cts.	cts.	$ c.			$ c.	
Wyoming—																			
1917	658.99	9,309	56	12	98	7.1	None	581.47	8,065	34	20	1.43	7.1	None	.....	....	.....	.....	90
1918	718.62	10,125	57	15	1.06	7.0		593.40	8,273	32	20	1.49	7.1		.....	....	.....	.....	89
1919	777.48	10,951	68	13	95	7.3		637.26	7,541	33	19	1.61	8.4		73.10	1	.....	.....	102
1920	1,116.01	13,140	78	15	1.27	8.5		953.51	10,000	20	31	2.91	9.5		665.29	2	22	30.25	122
1921	1,550.65	16,511	86	17	1.57	9.2		1,226.83	13,928	39	30	2.62	8.8		747.17	4	36	20.75	129
1922	1,696.84	21,139	94	20	1.57	7.8		1,218.89	19,245	39	41	2.61	6.3		628.67	2	26	24.20	135
1923	1,787.90	27,588	97	24	1.56	6.5		1,164.22	19,357	41	39	2.38	6.0		372.61	2	14	26.62	140
1924	1,656.80	19,850	94	17	1.45	8.5		1,084.82	20,784	48	39	2.03	5.2		362.50	2	14	25.89	144
Zurich—																			
1918	810.66	5,785	49	8	1.17	14.0	Flat	873.86	5,623	33	12	1.89	15.5	Flat	3,084.22	1	50	61.68	83
1919	878.22	7,441	52	12	1.41	11.8		766.98	5,546	36	13	1.78	13.8		2,710.24	2	53	51.14	90
1920	881.70	8,503	55	13	1.36	10.4		991.52	7,701	39	24	3.18	12.9		2,773.80	2	59	47.00	96
1921	954.55	9,612	59	14	1.35	9.9		1,009.12	9,847	39	21	2.16	10.2		2,343.29	2	54	43.39	100
1922	1,062.95	11,802	65	15	1.43	9.0		1,132.66	11,282	42	24	2.36	10.0		2,172.10	3	57	38.11	110
1923	1,327.15	15,640	75	17	1.49	8.4		1,125.33	13,504	43	26	2.18	8.3		2,123.87	4	58	36.62	122
1924	1,470.91	23,880	86	24	1.51	6.3		1,034.53	14,597	42	29	2.05	7.1		2,295.35	4	66	34.78	132

STATEMENT "E"

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Acton	1,649	114	80 c.p. *s*	12.00	2,120.00	1.28
		61	100 watt *m*	12.00		
		2	200 " *m*	12.00		
Agincourt		43	100 " *m*	16.00	690.00	**
Ailsa Craig	514	54	100 " *m*	12.00	639.00	1.24
Alexandria	2,255	128	100 " *m*	22.00	2,819.66	1.25
Alliston	1,283	101	150 c.p. *s*	18.00	2,040.00	1.59
		13	100 watt *m*	18.00		
Alvinston	657	86	100 " *m*	20.00	1,720.00	2.62
Ancaster Twp.		70	100 " *m*	12.00	864.00	**
Apple Hill		23	100 " *m*	25.00	575.00	**
Arthur	1,062	75	100 " *m*	25.00	1,899.38	1.79
		4	200 " *m*	38.00		
Aylmer	2,222	145	100 " *m*	15.00	2,604.00	1.17
		13	300 c.p. *s*	33.00		
Ayr	811	78	100 watt *m*	14.00	1,092.00	1.35
Baden		61	100 " *m*	9.00	549.00	**
Barrie	7,075	511	150 c.p. *s*	8.00	4,088.00	0.58
Barton Twp.		179	100 " *m*	12.00	1,267.00	*a*
		23	200 " *m*	24.00		
Beachville		45	100 watt *m*	11.00	495.00	**
Beaverton	975	92	100 " *m*	14.00	1,169.28	1.20
Beeton	578	64	150 c.p. *s*	16.00	1,192.00	2.06
		14	100 watt *m*	16.00		
Belle River	560	60	100 " *m*	18.00	1,080.00	1.93
Blenheim	1,553	139	150 c.p. *s*	15.00	2,482.00	1.60
		16	400 " *s*	34.00		
Bloomfield	625	43	100 " *s*	25.00	1,066.67	1.71
Blyth	646	84	100 watt *m*	25.00	922.50	*a*
		9	200 " *m*	40.00		
Bolton	664	55	100 " *m*	16.00	932.00	1.40
Bothwell	647	89	100 " *m*	13.00	1,105.00	1.71
Bradford	995	60	150 c.p. *s*	22.00	1,474.20	1.48
		7	100 watt *m*	21.00		
Brampton	4,778	610	100 " *m*	7.00	4,286.00	0.90

s Series system. *m* Multiple system. **Population not shown in Government statistics.
a Operation for less than a year.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Brantford	30,109	147	Mag. arcs *s*	45.00	34,705.62	1.15
		3,451	100 watt *m*	8.00		
		10	150 " *m*	9.00		
		11	200 " *m*	11.00		
		2	500 " *m*	45.00		
		14	750 " *m*	46.00		
Brantford Twp.		239	100 " *m*	16.00	3,497.57	**
Brechin		17	100 " *m*	22.00	337.93	**
Brigden		30	60 " *m*	15.00	925.00	**
		25	100 " *m*	18.00		
Brockville	9,384	522	100 c.p. *s*	13.00	9,188.50	0.98
		36	3 Lt. stds. *m*	23.00		
		51	5 " *m*	28.00		
		15	1 "	18.00		
Brussels	890	80	100 watt *m*	25.00	880.00	*a*
		16	200 " *m*	40.00		
Burford		64	100 " *m*	15.00	960.00	**
Burgessville		22	100 " *m*	15.00	330.00	**
Caledonia	1,326	125	100 " *m*	9.00	1,087.20	0.82
Cannington	924	75	100 " *m*	18.00	1,138.00	1.23
Carleton Place	4,254	236	60 " *m*	8.00	1,871.83	0.44
Chatham	15,084	68	1,000 c.p. *s*	42.00	16,850.29	1.12
		90	600 " *s*	34.00		
		731	150 " *s*	15.00		
Chatsworth	284	26	150 watt *m*	15.00	414.00	1.46
		2	100 " *m*	12.00		
Chesley	1,746	84	150 c.p. *s*	15.00	1,620.00	0.93
		24	400 " *s*			
Chesterville	865	65	100 watt *m*	17.00	1,105.00	1.28
Chippawa	1,078	75	100 " *m*	12.00	900.00	0.84
Clifford	467	51	100 " *m*	25.00	690.63	*a*
Clinton	1,922	143	150 c.p. *s*	12.00	1,883.00	0.98
		11	100 watt *m*	12.00		
		2	Clusters *m*	18.00		
Coldwater	595	45	100 watt *m*	10.00	450.00	0.76
Collingwood	6,004	413	150 c.p. *s*	8.00	3,298.30	0.55
Comber		50	100 watt *m*	13.00	658.37	**
Cookstown		56	150 c.p. *s*	14.00	784.00	**

s Series system. *m* Multiple system. **Population not shown in Government statistics.
a Operation for less than a year.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Courtright	441	40	100 watt *m*	30.00	1,200.00	2.72
Creemore	630	57	100 " *m*	10.00	569.20	0.90
Dashwood	.....	41	100 " *m*	15.00	615.00	**
Delaware	.....	21	100 " *m*	18.00	378.00	**
Dorchester	.....	32	100 " *m*	13.00	416.00	**
Drayton	613	60	100 " *m*	17.00	1,020.00	1.66
Dresden	1,426	123	100 c.p. *s*	14.00	1,722.00	1.21
Drumbo	.....	37	100 watt *m*	14.00	518.00	**
Dublin	.....	36	100 " *m*	20.00	720.00	**
Dundalk	727	74	100 " *m*	10.00	740.00	1.02
Dundas	5,070	346 1	100 " *m* 200 " *m*	11.00 16.00	3,828.99	0.75
Dunnville	3,605	214 27	100 c.p. *s* 600 " *s*	14.00 65.00	4,653.03	1.29
Durham	1,640	102	150 " *s*	16.00	1,584.00	0.97
Dutton	823	101	100 watt *m*	10.00	1,019.04	1.24
Elmira	2,392	174 8	100 " *m* 200 " *m*	11.00 16.00	2,017.00	0.84
Elmvale	.....	57	100 " *m*	12.00	684.00	**
Elmwood	.....	23	150 " *m*	18.00	414.00	**
Elora	1,079	93	100 " *m*	14.00	1,302.00	1.21
Embro	475	49	100 " *m*	16.00	769.30	1.62
Erieau	153	20	100 " *m*	22.00	185.54	*a*
Essex	1,591	18 73	100 " *m* 60 " *m*	27.74 15.61	1,868.80	***
Etobicoke Twp.	.....	611	100 " *m*	14.00	7,971.05	**
Exeter	1,531	162 23	100 " *m* 200 " *m*	10.00 20.00	2,075.57	1.36
Fergus	1,762	27 116	150 " *m* 100 " *m*	14.00 14.00	1,999.13	1.13
Flesherton	420	46	100 " *m*	12.00	552.00	1.31
Ford City	5,724	166	100 " *m*	12.00	1,849.00	††
Forest	1,437	36 177 19	100 " *m* 60 " *m* 100 " *m*	11.00 10.00 14.00	2,443.93	1.70

s Series system. *m* Multiple system. **Population not shown in Government statistics.
***Fourteen months' operation. *a* Operation for less than a year.
††Part of cost paid in debenture charges.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Galt	13,222	964	100 c.p. *s*	9.00	20,727.75	1.57
		314	100 watt *m*	12.00		
		152	300 " *m*	35.00		
		74	500 " *m*	40.00		
Georgetown	1,973	166	100 " *m*	12.00	2,136.00	†
		17	100 " *m*	12.00		
Glencoe	840	123	100 " *m*	17.00	2,091.00	2.49
Goderich	4,220	293	100 c.p. *s*	11.00	4,223.00	1.00
		16	3 Lt. stds. *m*	40.00		
		8	250 watt *m*	25.00		
		8	100 " *m*	20.00		
Grand Valley	616	52	100 " *m*	16.00	832.00	1.35
Granton	.....	32	100 " *m*	13.00	416.00	**
Gravenhurst	1,609	24	150 c.p. *s*	15.00	2,168.25	1.35
		104	100 " *s*	15.00		
		15	100 watt *m*	15.00		
Guelph	18,420	4	60 " *m*	4.00	10,950.60	0.59
		1,078	100 " *m*	9.00		
		25	200 " *m*	12.50		
		1	400 " *m*	25.00		
		2	1,000 " *m*	46.50		
		84	300 " *m*	18.75		
Hagersville	1,155	100	100 " *m*	8.00	800.00	0.69
Hamilton	120,234	7,862	100 " *m*	7.50	84,774.84	0.70
		965	200 " *m*	11.00		
		412	500 " *m*	37.00		
		22	300 " *m*	18.00		
Hanover	2,714	91	150 c.p. *s*	27.00	3,010.44	1.11
		16	400 " *s*	32.00		
		12	200 watt *m*	32.00		
		4	100 " *m*	27.00		
Harriston	1,318	85	150 c.p. *s*	17.00	1,303.33	0.99
Harrow	.....	.....	.....	.....	655.47	***
Havelock	1,255	63	100 c.p. *s*	24.00	2,056.00	1.64
		16	250 " *s*	34.00		
Hensall	705	65	100 watt *m*	13.00	975.00	1.38
Hespeler	2,907	135	150 c.p. *s*	11.00	1,971.33	0.68
		28	400 " *s*	17.50		
Highgate	414	45	100 watt *m*	12.00	540.00	1.30
Holstein	.....	14	100 " *m*	35.00	490.00	**
Humberstone	1,428	.....	.....	.....	130.50	*a*

s Series system. *m* Multiple system. **Population not shown in Government statistics.
a Operation for less than a year. ***Fourteen months' operation.
†Includes Glen Williams.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Huntsville	2,286	48	150 c.p. *s*	14.00	2,200.00	0.96
		23	400 " *s*	36.00		
		57	75 watt *m*	10.00		
		13	50 " *m*	10.00		
Ingersoll	5,002	315	100 c.p. *s*	13.00	5,023.42	1.01
		26	1,000 " *s*	40.00		
		2	1,000 " *s*	25.00		
		13	100 " *s*	6.50		
Jarvis	475	44	100 watt *m*	19.00	696.66	*a*
Kemptville	1,175	75	100 " *m*	20.50	1,537.50	1.31
Kincardine	2,113	13	400 c.p. *s*	37.00	3,888.00	1.84
		112	150 " *s*	24.00		
		13	200 watt *m*	29.00		
		19	100 " *m*	18.00		
Kingston	21,975	53	1,000 c.p. *s*	.....	20,000.00	0.91
		323	600 " *s*	.....		
		85	100 " *s*	.....		
Kingsville	1,990	100	60 watt *m*	12.00	2,878.88	***
		37	100 " *m*	32.85		
Kirkfield	.....	23	100 " *m*	20.00	460.00	**
Kitchener	23,571	1	600 c.p. *s*	30.00	25,632.37	1.09
		20	250 " *s*	17.35		
		6	500 watt *m*	36.00		
		1,902	80 c.p. *s*	9.00		
		281	200 watt *m*	12.00		
		125	500 " *m*	30.00		
		63	150 c.p. *s*	9.00		
		154	300 watt *m*	22.00		
		22	150 " *m*	17.35		
Lakefield	1,250	93	100 " *m*	20.00	1,851.68	1.48
Lambeth	.....	1	500 " *m*	47.00	559.00	**
		32	100 " *m*	16.00		
Lanark	591	35	100 " *m*	20.00	700.00	1.18
Lancaster	601	40	100 " *m*	30.00	1,400.00	2.33
Leamington	3,969	.....	.....	.....	4,294.03	***
Listowel	2,431	60	100 watt *m*	12.50	3,675.00	1.50
		180	60 " *m*	12.00		
		27	300 " *m*	30.00		
London	61,369	294	400 c.p. *s*	18.00	39,270.32	0.62
		2,629	150 " *s*	11.00		
		94	500 watt *m*	45.00		
		146	100 " *m*	11.00		

s Series system. *m* Multiple system. **Population not shown in Government statistics.
***Fourteen months' operation. *a* Operation for less than a year.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Lucan	602	67	100 watt *m*	15.00	1,005.00	1.67
Lucknow	917	56	100 " *m*	25.00	1,400.00	1.53
Lynden	.....	33	100 " *m*	19.00	396.05	**
Markdale	865	65	150 c.p. *s*	10.00	650.04	0.75
Markham	967	83 16	100 watt *m* 60 " *m*	19.00 13.00	1,785.00	1.85
Marmora	794	40 47	100 " *m* 75 " *m*	24.00 24.00	2,088.00	2.63
Martintown	.....	15	100 " *m*	25.00	375.00	**
Maxville	763	53	150 c.p. *s*	35.00	1,855.08	2.43
Meaford	2,653	130 33	100 " *s* 200 watt *m*	20.00 30.00	3,698.91	†
Merlin	.....	39	100 " *m*	19.50	736.16	**
Merritton	2,591	282	100 " *m*	10.00	2,822.50	1.09
Midland	7,157	19 346	1,000 c.p. *s* 150 " *s*	35.00 10.00	4,061.65	0.57
Milton	1,900	197	100 watt *m*	10.00	1,900.84	1.00
Milverton	1,056	85 12	100 " *m* 200 " *m*	10.00 17.00	1,054.08	1.00
Mimico	4,137	206 63	100 " *m* 200 " *m*	13.00 23.00	3,955.91	0.96
Mitchell	1,739	202	100 c.p. *s*	11.00	2,191.79	1.26
Moorefield	.....	25	100 watt *m*	19.00	475.00	**
Mount Brydges	.....	40	100 " *m*	13.00	487.50	**
Mount Forest	1,734	37 145	250 c.p. *s* 150 " *s*	19.50 14.00	2,582.66	1.49
Neustadt	452	39	150 " *s*	25.00	975.00	2.16
Newbury	307	46	100 watt *m*	18.00	828.00	2.70
New Hamburg	1,390	240	100 " *m*	11.50	2,640.00	1.90
New Toronto	3,182	59 180	200 " *m* 75 " *m*	27.00 15.00	4,493.75	1.41
Niagara Falls	15,404	182 758 16	1,000 c.p. *s* 100 " *s* 600 " *s*	57.00 12.00 57.00	20,144.44	1.31
Niagara-on-the-Lake	1,714	215	100 watt *m*	11.00	2,252.37	1.30

s Series system. *m* Multiple system. **Population not shown in Government statistics.
†Sixteen months' operation.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Norwich	1,315	115	100 watt *m*	12.00	2,290.75	1.74
		22	400 " *m*	42.00		
Norwood	765	82	100 c.p. *s*	23.00	1,913.00	2.50
		2	*80 " *s*	13.50		
North York Twp.		5	100 watt *m*	16.50	109.62	†
		5	100 " *m*	12.00		
		3	200 " *m*	33.50		
Oil Springs	469	43	100 " *m*	16.00	688.00	1.47
Omemee	450	42	150 c.p. *s*	14.00	868.00	1.93
		10	400 " *s*	28.00		
Orangeville	2,611	56	400 " *s*	30.00	3,858.05	1.48
		91	150 " *s*	24.00		
Ottawa	116,205	59	arcs	45.00	52,938.37	0.46
		405	100 c.p. *s*	10.00		
		329	400 " *s*	35.00		
		731	600 " *s*	45.00		
		387	150 " *s*	6.00		
		2,900	100 watt *m*	48c. per ft.	16,021.68	***
Otterville		29	100 " *m*	13.00	377.00	**
Owen Sound	12,218	37	250 c.p. *s*	13.50	10,614.00	0.87
		515	150 " *s*	13.00		
		72	300 " *s*	16.00		
		34	600 " *s*	23.00		
		90	100 watt *m*	11.00		
		43	200 " *m*	14.00		
Paisley	735	86	100 " *m*	22.00	1,892.00	2.57
Palmerston	1,820	121	150 c.p. *s*	13.00	2,070.00	1.14
		11	400 " *s*	40.00		
		2	300 watt *m*	40.00		
Paris	4,345	418	100 c.p. *s*	9.00	6,041.25	1.39
		13	400 " *s*	42.00		
		25	500 watt *m*	52.50		
Parkhill	1,192	74	100 " *m*	14.00	1,381.00	1.16
		15	200 " *m*	23.00		
Penetang	3,945	181	100 c.p. *s*	10.00	1,810.00	0.46
Perth	3,710	55	100 " *s*	22.00	2,003.33	0.54
		15	250 " *s*	34.00		
		5	400 " *s*	46.00		
		4	600 " *s*	64.00		
Peterborough	21,605	104	Magnetite arcs	50.50	16,369.98	0.77
		1,170	60 watt *m*	9.00		
		20	300 " *m*	27.00		
Petrolia	2,836	144	150 c.p. *s*	14.00	3,256.26	1.15
		24	400 " *s*	45.00		

s Series system. *m* Multiple system. **Population not shown in Government statistics.
***Collected as local improvement on frontage basis and not included in average cost.
†Thirteen months' operation.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Picton	3,135	283	100 c.p. *s*	12.50	3,531.30	1.13
Plattsville	.....	33	100 watt *m*	18.00	588.00	**
Point Edward	1,116	56	150 c.p. *s*	15.00	770.00	0.69
Port Arthur	15,681	2,783	..... *m*	.....	16,509.23	1.05
Port Colborne	3,624	227	100 watt *m*	16.00	3,345.92	0.92
Port Credit	1,134	111	100 " *m*	11.00	1,221.00	1.08
Port Dalhousie	1,467	104	100 " *m*	15.00	1,560.00	1.07
Port Dover	1,573	12 102	300 " *m* 100 " *m*	40.00 18.00	2,235.00	1.42
Port McNicoll	650	42	100 " *m*	13.00	546.00	0.84
Port Perry	1,115	91 4	100 " *m* 75 " *m*	20.00 Flat Rate	2,014.69	1.81
Port Stanley	726	165	100 " *m*	13.00	2,145.00	†
Prescott	2,597	161 210	100 " *m* 2-Lt. brckts *m*	10.00 17.00	3,395.00	1.31
Preston	5,576	2 293 34 6 8	600 c.p. *s* 150 " *s* 1,000 " *s* 1,000 " *s* 400 " *s*	21.00 11.00 48.00 39.00 23.00	5,450.35	0.98
Priceville	.....	14	100 watt *m*	31.50	469.50	**
Princeton	.....	21	100 " *m*	20.00	420.00	**
Queenston	.....	31	100 " *m*	16.00	494.76	**
Ridgetown	1,947	137 17	150 c.p. *s* 600 " *s*	14.00 30.00	2,427.97	1.25
Ripley	.....	49	100 watt *m*	27.00	1,323.00	**
Riverside	3,034	73	250 c.p. *s*	27.50	1,620.00	††
Rockwood	.....	69	100 watt *m*	12.00	804.25	**
Rodney	711	82	100 " *m*	13.00	1,062.72	1.49
St. Catharines	21,194	2,868	100 " *m*	7.50	21,998.78	1.04
St. George	.....	35	100 " *m*	9.00	315.00	**
St. Jacobs	.....	40	100 " *m*	12.00	480.00	**
St. Marys	4,017	216 121	100 c.p. *s* 250 " *s*	10.00 16.00	4,085.00	1.02

s Series system. *m* Multiple system. **Population not shown in Government statistics.
† Summer population not in statistics. ††Part of cost paid in debenture charges.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
St. Thomas	17,779	28	250 c.p. *s*	14.25	14,687.30	0.83
		114	600 " *s*	37.50		
		1,057	100 " *s*	9.50		
Sandwich	5,010	366	100 " *s*	13.00	4,256.64	*a*
		56	400 " *s*	28.00		
		10	100 watt *m*	13.00		
Sarnia	15,176	78	1,000 c.p. *s*	45.00	12,141.99	0.80
		662	150 " *s*	13.00		
Scarboro' Twp.	.....	332	100 watt *m*	15.00	6,537.46	**
		140	150 c.p. *s*	17.00		
Seaforth	1,902	70	80 " *s*	12.00	1,722.00	0.91
		63	60 " *s*	10.00		
		21	60 " *s*	12.00		
Sebringville	.....	15	100 watt *m*	12.00	.....	**
Shelburne	1,093	91	150 c.p. *s*	12.00	1,092.00	1.00
Simcoe	4,049	27	250 " *s*	25.00	3,109 00	0.77
		256	150 " *s*	9.00		
		11	100 watt *m*	9.00		
Smiths Falls	6,592	219	100 " *m*	14.00	3,944.08	0.60
		50	200 " *m*	19.00		
Springfield	381	40	100 " *m*	17.00	680.00	1.78
Stamford Twp.	.....	449	100 " *m*	10.00	4,434.57	**
Stayner	1,030	17	200 c.p. *m*	15.00	915.00	0.89
		60	150 " *s*	11.00		
Stouffville	1,115	93	100 watt *m*	23.00	2,139.00	1.92
Stratford	18,224	787	150 c.p. *s*	11.00	18,643.56	1.02
		11	1,000 " *s*	50.00		
		45	1,000 " *s*	40.00		
		167	1,000 " *s*	45.00		
Strathroy	2,642	311	100 " *s*	9.00	3,261.00	1.23
		32	250 " *s*	15.00		
Sunderland	.....	27	100 watt *m*	20.00	540.00	**
Sutton	847	103	100 " *m*	23.00	2,369.00	2.80
Tara	502	68	100 " *m*	25.00	1,700.00	3.39
Tavistock	1,027	68	100 " *m*	12.00	1,357.92	1.32
		35	200 " *m*	16.00		
Tecumseh	1,133	29	100 " *m*	12.00	337.00	††
Teeswater	813	20	400 c.p. *s*	45.00	1,656.00	2.04
		27	150 " *s*	28.00		
Thamesford	.....	34	100 watt *m*	15.00	510.00	**

s Series system. *m* Multiple system. **Population not shown in Government statistics.
a Operation for less than a year. ††Part of cost paid direct in the form of debenture charges.

STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps		Cost per lamp per annum	Total cost per annum	Cost per capita
					$ c.	$ c.	$ c.
Thamesville	785	77	100 watt	*m*	10.00	770.00	0.98
Thedford	506	65	100 "	*m*	20.00	1,300.00	2.57
Thorndale	.....	28	100 "	*m*	16.00	448.00	**
Thornton	.....	21	100 "	*m*	40.00	840.00	**
Thorold	5,033	60	100 "	*m*	10.00	3,191.00	0.63
		249	60 "	*m*	7.00		
		32	200 "	*m*	15.00		
		23	4-Lt. clstr.	*m*	16.00		
Tilbury	1,981	90	100 watt	*m*	11.00	1,028.85	0.52
		1	200 "	*m*	22.00		
Tillsonburg	3,086	48	250 c.p.	*s*	16.00	3,265.62	1.06
		2	1,000 "	*s*	50.00		
		244	100 "	*s*	10.00		
Toronto	529,210	7	50 watt	*m*	6.56	447,069.08	0.84
		6	60 "	*m*	4.80		
		43,041	100 "	*m*	8.00–12.00		
		123	150 "	*m*	12.00–15.00		
		894	200 "	*m*	18.00–24.00		
		91	250 "	*m*	20.00–24.50		
		1,329	300 "	*m*	28.00		
		43	500 "	*m*	45.00		
		5	1,000 "	*m*	90.00		
		439	5-Lt. stds.	*m*	47.50		
		24	1-Lt. stds., 500 watt	*m*	52.50		
		353	1-Lt. stds., 300 watt	*m*	58.00		
Toronto Twp.	.....	11	100 "	*m*	16.50	2,815.00	**
		171	100 "	*m*	19.00		
		52	100 "	*m*	18.50		
		1	200 "	*m*	66.00		
Tottenham	519	49	150 c.p.	*s*	25.00	1,225.00	2.36
Uxbridge	1,453	126	100 watt	*m*	18.00	2,268.00	1.56
Vaughan Twp.	.....	14	100 "	*m*	17.00	238.00	**
Victoria Harbour	1,453	73	100 "	*m*	11.00	753.50	0.52
Walkerville	7,469	48	600 c.p.	*s*	47.00	7,533.38	††
		504	60 watt	*m*	6.60		
		360	100 "	*m*	10.00		
Wallaceburg	4,530	180	150 c.p.	*s*	12.00	2,872.92	0.63
		29	600 "	*s*	25.00		
Warkworth	.....	32	100 watt	*m*	30.00	955.00	**
Wardsville	195	31	75 "	*m*	29.00	620.00	3.18
Waterdown	811	94	100 "	*m*	10.00	940.00	1.16

s Series system. *m* Multiple system. **Population not shown in Government statistics.
††Part of cost paid direct in the form of debenture charges.

STATEMENT "E"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				$ c.	$ c.	$ c.
Waterford	1,065	120	100 watt *m*	10.00	1,213.40	1.14
Waterloo	6,096	434	100 c.p. *s*	10.00	6,894.27	1.13
		38	100 watt *m*	10.00		
		14	200 " *m*	15.00		
		44	5-Lt. stds. *m*	40.00		
		10	3-Lt. stds. *m*	25.00		
Watford	1,059	90	100 watt *m*	12.00	1,102.50	1.04
Waubaushene		31	100 " *m*	10.00	310.00	**
Welland	8,636	124	200 " *m*	18.00	7,490.97	0.87
		453	100 " *m*	11.00		
Wellesley		59	100 " *m*	15.00	885.00	**
Wellington	812	65	100 c.p. *s*	14.00	910.00	1.12
West Lorne	812	82	100 watt *m*	10.00	1,034.50	1.24
		9	200 " *m*	18.00		
Weston	3,569	108	600 c.p. *s*	50.00	8,820.15	2.47
		385	100 " *s*	8.00		
		32	150 " *s*	9.00		
		3	250 " *s*	15.00		
		4	5-Lt. stds. *m*	25.00		
		20	300 watt *m*	20.00		
		2	100 " *m*	8.00		
Wheatley	647	49	100 " *m*	30.00	1,225.00	*a*
Whitby	4,174	209	80 c.p. *s*	7.50	2,632.66	0.63
		118	100 watt *m*	7.50		
		1	500 " *m*	11.50		
Williamsburg		18	100 " *m*	15.00	270.00	**
Winchester	1,090	117	100 " *m*	10.00	1,170.00	1.07
Windsor	42,122	2,320	100 c.p. *s*	13.00	55,909.51	††
		266	400 " *s*	28.00		
		485	600 " *s*	50.00		
Wingham	2,440	91	150 " *s*	28.00	4,345.01	1.78
		25	400 " *s*	40.00		
		20	200 watt *m*	40.00		
Woodbridge	675	80	100 " *m*	11.00	876.00	1.30
Woodstock	10,196	50	250 c.p. *s*	20.00	6,812.67	0.67
		448	100 " *s*	8.00		
		174	60 watt *m*	8.00		
		105	100 " *m*	8.00		
Woodville	458	36	100 " *m*	15.00	540.00	1.18
Wyoming	503	50	100 " *m*	20.00	1,000.00	1.99
Zurich		62	100 " *m*	12.00	735.00	**

s Series system. *m* Multiple system. **Population not shown in Government statistics.
††Part of cost paid direct in the form of debenture charges.

STATEMENT
Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year												
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Acton *d*	.....	36.00	36.00	36.00	36.00	36.00	36.00	35.00	32.00	32.00	37.00	37.00	35.00
Agincourt *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.00	40.00
Ailsa Craig *d*	.....	.....	.....	.....	49.67	49.67	49.67	49.00	49.00	49.00	49.00	49.00	49.00
Alexandria *d*	.....	.....	.....	.....	.....	.....	.....	.....	65.00	80.00	80.00	80.00	80.00
Alliston *d*	.....	.....	.....	.....	.....	.....	40.00	40.00	50.00	60.00	65.00	55.00	60.00
Alvinston *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	95.95	95.95	85.00
Ancaster *d*	.....	.....	.....	.....	.....	.....	.....	25.81	25.81	25.81	25.81	25.81	25.81
Apple Hill *a*	.....	.....	.....	.....	.....	.....	.....	.....	60.00	85.00	85.00	85.00	80.00
Arthur *d*	.....	.....	.....	.....	.....	45.00	45.00	45.00	65.00	85.00	85.00	85.00	98.00
Aylmer *d*	.....	.....	.....	.....	.....	.....	39.00	38.00	38.00	45.00	50.00	50.00	46.00
Ayr *d*	.....	.....	.....	37.40	37.40	37.40	37.40	45.00	50.00	50.00	50.00	50.00	43.00
Baden *d*	36.95	37.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	36.00	36.00	36.00
Barrie *d*	.....	33.70	33.70	33.70	33.70	31.00	31.00	29.00	29.00	29.00	29.00	29.00	28.00
Barton Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29.02
Beachville *d*	33.89	31.00	31.00	31.00	31.00	28.00	28.00	27.00	27.00	30.00	37.00	37.00	36.00
Beaverton *d*	.....	.....	.....	6.17	59.00	41.21	41.21	45.00	55.00	60.00	52.00	50.00	50.00
Beeton *d*	.....	.....	.....	.....	.....	.....	45.00	45.00	85.00	85.00	85.00	75.00	75.00
Belle River *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	92.00	60.00
Blenheim *d*	.....	.....	.....	.....	43.70	43.70	43.70	50.00	50.00	53.00	54.00	50.00	48.00
Bloomfield *d*	.....	.....	.....	.....	.....	.....	.....	66.16	66.16	66.16	72.50	72.50	70.00
Blyth *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	91.20
Bolton *d*	.....	.....	.....	43.00	43.00	43.00	43.00	43.00	60.00	60.00	60.00	60.00	55.00
Bothwell *d*	.....	.....	.....	.....	59.26	59.26	59.26	60.00	60.00	60.00	55.00	55.00	50.00
Bradford *d*	.....	.....	.....	.....	.....	.....	47.00	47.00	75.00	75.00	75.00	75.00	84.00
Brampton *b*	29.00	25.00	25.00	25.00	24.00	22.00	22.00	22.00	20.00	20.00	26.00	28.00	30.00
Brantford *a*	.....	.....	19.50	19.50	19.00	19.00	19.00	18.00	18.00	20.00	25.00	25.00	25.00
Brantford Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brechin *d*	.....	.....	.....	56.79	67.00	50.00	50.00	55.00	85.00	90.00	90.00	85.00	85.00
Bridgeport, ext *d*	.....	.....	Served by Kitchener										
Brigden *d*	.....	.....	.....	.....	.....	57.56	57.50	57.50	57.50	60.00	66.00	70.00	78.00
Brockville *d*	.....	.....	.....	.....	.....	.....	30.00	40.00	45.19	55.00	55.00	40.00	38.00
Brussels *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.16
Bullock's Corners and Greensville, ext *d*	.....	.....	Served by Dundas										
Burford *d*	.....	.....	.....	37.50	37.50	37.50	37.50	60.00	70.00	70.00	70.00	60.00	56.00
Burgessville *d*	.....	.....	.....	.....	.....	48.38	48.38	48.00	48.00	48.00	52.00	58.00	55.00
Caledonia *d*	29.10	29.10	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	29.00	29.00	29.00
Cannington *d*	.....	.....	.....	65.77	63.00	45.79	45.79	50.00	65.00	65.00	65.00	55.00	55.00
Carleton Place *d*	.....	.....	.....	.....	.....	.....	.....	33.00	33.00	44.00	44.00	44.00	46.50
Chatham *a*	.....	.....	.....	30.78	30.78	30.78	30.78	29.00	29.00	28.00	31.00	31.00	31.00
Chatsworth *d*	.....	.....	.....	.....	30.18	30.18	30.18	30.00	45.00	60.00	70.00	60.00	50.00
Chesley *d*	.....	.....	.....	.....	40.00	40.00	40.00	40.00	45.00	55.00	55.00	50.00	50.00
Chesterville *d*	.....	.....	36.12	43.29	46.00	46.00	46.00	46.00	76.73	85.00	85.00	65.00	60.00
Chippawa *d*	.....	.....	.....	.....	.....	.....	.....	35.00	35.00	32.00	32.00	25.00	30.00
Clifford *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.50
Clinton *a*	.....	.....	39.00	39.00	42.00	42.00	42.00	43.00	43.00	46.00	48.00	50.00	50.00
Coldwater *d*	.....	28.00	28.00	28.00	28.00	28.00	28.00	40.00	50.00	60.00	60.00	40.00	35.00
Collingwood *d*	.....	33.79	33.79	33.79	33.79	30.00	30.00	28.00	28.00	36.00	45.00	40.00	33.00
Comber *d*	.....	.....	.....	.....	56.22	56.22	56.22	60.00	60.00	60.00	60.00	50.00	43.00
Cookstown *d*	.....	.....	.....	.....	.....	.....	35.00	35.00	60.00	60.00	60.00	60.00	58.00
Courtright *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	97.30
Creemore *d*	.....	.....	54.13	54.13	54.13	54.13	54.13	60.00	65.00	65.00	70.00	60.00	55.00
Dashwood *d*	.....	.....	.....	.....	.....	.....	56.75	56.00	56.00	56.00	62.00	62.00	62.00
Delaware *d*	.....	.....	.....	46.56	46.56	46.56	46.56	50.00	85.00	85.00	85.00	75.00	70.00
Dereham Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dorchester *d*	.....	.....	.....	45.00	45.00	45.00	45.00	50.00	50.00	50.00	50.00	50.00	48.00
Drayton *d*	.....	.....	.....	.....	.....	.....	60.45	60.00	65.00	70.00	72.00	70.00	68.00
Dresden *d*	.....	.....	.....	43.00	43.00	43.00	43.00	42.00	38.00	38.00	38.00	38.00	38.00
Drumbo *d*	.....	.....	.....	40.73	40.73	40.73	40.73	45.00	50.00	55.00	55.00	50.00	45.00
Dublin *d*	.....	.....	.....	.....	.....	47.91	47.91	48.00	60.00	60.00	70.00	70.00	70.00
Dundalk *d*	.....	.....	.....	.....	27.30	27.30	27.30	27.00	38.00	50.00	55.00	45.00	43.00
Dundas *b*	17.00	16.00	15.00	15.00	14.00	14.00	14.00	14.00	14.00	17.00	22.00	23.00	23.00
Dunnville *a*	.....	.....	.....	.....	.....	.....	27.77	27.77	35.00	40.00	50.00	42.00	38.00
Durham *d*	.....	.....	.....	.....	33.97	33.97	33.97	33.00	45.00	50.00	50.00	40.00	38.00
Dutton *d*	.....	.....	.....	43.53	43.53	43.53	43.53	43.00	40.00	40.00	44.00	44.00	43.00
Elmira *d*	.....	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	34.00

Note *a*—Power delivered at 45,000, 26,400 or 22,000 volts.
Note *b*—Power delivered at 13,200 or 12,000 volts.

"F"
and Power Rates to Consumers

Power rates to consumers

1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
$ c.	cents	cents	cents	%	$ c.	cents	cents	cents	$ c.	%
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	4.5	3.0	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	8.3	5.5	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	3.0	2.0	0.15	10	1.00	3.0	2.0	0.5	3.05	10
1.00	6.5	4.4	0.15	10	1.00	6.5	4.4	0.5	5.10	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	4.9	3.3	0.15	10	1.00	4.7	3.1	0.5	4.00	10
1.00	4.9	3.3	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	3.5	2.3	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.0	1.4	0.15	10	1.00	1.7	1.1	0.5	2.20	10 & 10
1.00	2.5	1.7	0.15	10	1.00	2.5	1.7	0.15	....	10
1.00	2.2	1.5	0.15	10	1.00	2.0	1.33	0.5	2.25	10 & 10
1.00	4.2	2.8	0.15	10	1.00	3.6	2.4	0.5	3.45	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	8.6	5.7	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	6.5	4.3	0.15	10	1.00	6.5	4.3	0.15	....	10
....	...	...	....	...	1.00	9.4	6.3	0.5	6.75	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	6.4	4.3	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	2.33	1.56	0.167	10 & 10	1.00	2.2	1.5	0.5	2.60	10
1.00	2.00	1.4	0.15	10	1.00	2.00	1.4	0.15	....	10
1.00	2.8	1.8	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	2.8	1.8	0.15	10	1.00	3.7	2.2	0.2	....	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	4.7	3.1	0.15	10	1.00	3.5	2.3	0.5	3.35	10
....	...	...	....	..	1.00	9.4	6.3	0.5	5.33	10
1.00	.3	.2	0.15	10	1.00	.3	.2	0.15	....	10
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	5.2	3.5	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	2.6	1.8	0.15	10	1.00	2.6	1.8	0.5	2.85	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	3.6	2.4	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	2.5	1.7	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.20	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	5.2	3.5	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	2.	1.4	0.15	10	1.00	2.	1.4	0.5	2.50	10
....	...	...	....	..	1.00	7.1	4.7	0.5	5.33	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	4.2	2.8	0.15	10	1.00	3.7	2.5	0.5	3.50	10
1.00	2.5	1.7	0.15	10	1.00	2.2	1.5	0.5	2.35	10 & 10
1.00	5.6	3.8	0.15	10	1.00	4.5	3.0	0.5	3.90	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
....	...	...	....	..	....	...	...	...	....	..
1.00	6.4	4.3	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	6.7	4.5	0.15	10	1.00	6.7	4.5	0.5	5.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.40	10
....	...	...	....	..	....	...	...	...	....	..
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	7.1	4.7	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	3.6	2.4	0.15	10	1.00	3.2	2.1	0.5	3.15	10
1.00	4.8	3.2	0.15	10	1.00	4.8	3.2	0.5	4.10	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	3.9	2.6	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	2.0	1.33	0.167	10 & 10	1.00	1.67	1.11	0.5	2.10	10 & 10
1.00	3.9	2.6	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	3.9	2.6	0.15	10	1.00	3.1	2.1	0.5	3.10	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	3.6	2.4	0.15	10	1.00	2.9	1.9	0.5	3.00	10

Note *c*—Power delivered at 6,600 volts.
Note *d*—Power delivered at 4,000 or 2,000 volts.

STATEMENT
Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year												
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Elmvale *d*	.....	31.00	31.00	31 00	31.00	31.00	31.00	31.00	37.00	37.00	37.00	35 00	31.00
Elmwood *d*	.....	.....	.....	.....	.....	.....	35.00	35.00	45.00	55.00	55.00	55.00	50.00
Elora *d*	.....	.....	33.97	33.97	33.97	33.97	33.97	40 00	40.00	40.00	44.00	40.00	38.00
Embro *d*	.....	.....	.....	39.85	45 00	45.00	45.00	60.00	75.00	75.00	80.00	70.00	68.00
Erieau *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84.28
Essex *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.00
Etobicoke Twp *d*	.....	.....	.....	.....	.....	27.00	27 00	27.00	27.00	27.00	27.00	30.00	28.00
Exeter *d*	.....	.....	.....	.....	41.66	41.66	41.66	41.00	41 00	41.00	46.00	55.00	48.00
Fergus *d*	.....	.....	33.97	33.97	33 97	33.97	33.97	40.00	40.00	44.00	47.00	40.00	36.00
Flesherton *d*	.....	.....	.....	.....	25.96	25.96	25.96	26.00	36.00	45.00	55.00	55.00	55.00
Ford City *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.42	40.00	38.00
Forest *d*	.....	.....	.....	.....	.....	63.27	63.27	63.00	60.00	60.00	60.00	55.00	55.00
Forest Hill *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Galt *c*	25.00	22.00	21.50	21.50	21.00	20.00	20.00	20.00	20.00	21.00	25.00	28.00	28.00
Gamebridge *d*	.....	.....	Serv	ed by	Brec	hin	.....	.....	.....	.....	.....	.....	.....
Georgetown *d*	.....	36.00	36.00	36.00	36.00	36.00	36.00	36.00	35.00	35.00	38.00	38.00	38.00
Glencoe *d*	.....	.....	.....	.....	.....	.....	.....	.....	78.35	78.35	76.00	70.00	65.00
Glen Williams, ext *d*	.....	.....	Serv	ed by	Geor	getow	n	.....	.....	.....	.....	.....	.....
Goderich *a*	.....	.....	37.00	37.00	43.00	43 00	43.00	43.00	43.00	50.00	55.00	57.00	55.00
Grand Valley *d*	.....	.....	.....	.....	.....	45.00	45.00	45.00	60.00	70.00	60.00	60.00	72.00
Grantham Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Granton *d*	.....	.....	.....	.....	48.61	48.61	48.61	48.00	55.00	55.00	55.00	55.00	55.00
Gravenhurst *c*	.....	.....	.....	.....	.....	.....	.....	.....	15.00	15.00	20.00	20 00	18.00
Guelph *b*	25.00	22.00	21 00	21 00	20 00	20.00	20.00	19.00	19.00	20.00	25.00	27.00	27 00
Hagersville *d*	.....	33.21	33.21	33.21	33.21	33.21	33.21	34.00	36.00	36.00	36.00	32.00	32.00
Hamilton *b*	17.00	16.00	15.00	15.00	14.00	14.00	14.00	14.00	14.00	16.00	20.00	24.00	24.00
Hanover *d*	.....	.....	.....	.....	.....	.....	35.00	35.00	35.00	40 00	35.00	35.00	36.00
Harriston *d*	.....	.....	.....	.....	46.62	46.62	46.62	48.00	52.00	55.00	50.00	50.00	50.00
Harrow *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50.00
Havelock *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65.00	65.00	58.00
Hensall *d*	.....	.....	.....	.....	.....	47.76	47.67	47.00	55.00	57.00	64.00	75.00	65.00
Hespeler *c*	26.00	23.00	23.00	23.00	22.50	21.00	21 00	21.00	21.00	23.00	29.00	30.00	30.00
Highgate *d*	.....	.....	.....	.....	.....	51.82	51.82	51.00	51.00	55.00	55.00	55.00	50 00
Holstein *d*	.....	.....	.....	.....	43.50	43.50	43.50	44.00	75.00	90.00	90.00	90.00	90.00
Hornings Mills *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Humberstone *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27 68
Huntsville *d*	.....	.....	.....	.....	.....	22.51	22.51	25.00	25.00	25.00	25.00	25.00	27.00
Ingersoll *b*	28.00	25.50	25 50	25.50	25.00	23.00	23.00	23.00	21 00	23.00	29.00	30.00	30 00
Jarvis *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.00
Kemptville *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	85.00	80.00	60.00	60.00
Kincardine *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.00	70.00	70.00
Kingston *a*	.....	.....	.....	.....	.....	.....	28.00	.....	25.00	25.00	27.00	26.00	26.00
Kingsville *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50.00
Kirkfield *d*	.....	.....	.....	.....	.....	.....	.....	.....	45.00	60.00	60.00	55.00	55.00
Kitchener *b*	25.00	22.50	21 50	21.50	21 00	20 00	20.00	19.00	19.00	20.00	25.00	27.00	27.00
Lakefield *d*	.....	.....	.....	.....	.....	.....	.....	.....	36 00	36.00	45.00	45.00	42.00
Lambeth *d*	.....	.....	.....	46.56	46.56	46.56	46.56	50.00	85.00	75.00	75.00	70.00	70.00
Lanark *d*	.....	.....	.....	.....	.....	.....	.....	.....	92.50	92.50	92.50	75.00	75.00
Lancaster *d*	.....	.....	.....	.....	.....	.....	.....	.....	97.00	97.00	97.00	97.00	97.00
Leamington *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.00
Listowel *d*	.....	.....	.....	.....	37.41	37.41	37 41	37.00	37.00	37.00	37.00	40.00	40.00
London *b*	28.00	24.00	23.00	23.00	22.00	21.00	21.00	19.00	19.00	20.00	25.00	25.00	25.00
London Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lucan *d*	.....	.....	.....	47.74	47.74	47.74	47.74	40.00	40.00	35.00	38.00	40.00	40.00
Lucknow *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.00	65.00	75.00
Lynden *d*	.....	.....	.....	33.00	33.00	33.00	33.00	40 00	50.00	50.00	50.00	45.00	43.00
Markdale *d*	.....	.....	.....	.....	23.24	23.24	23.24	23.00	35.00	50.00	50.00	40.00	39.00
Markham *d*	.....	.....	.....	.....	.....	.....	.....	.....	77.74	77.74	70.00	65.00	60.00
Marmora *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35.00	35.00	35.00
Martintown *d*	.....	.....	.....	.....	.....	.....	.....	.....	54.00	85.00	85.00	75.00	75.00
Maxville *d*	.....	.....	.....	.....	.....	.....	.....	.....	86.00	86.00	86.00	86.00	86.00
Meaford *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.00	60.00
Merlin *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.00	55.00
Merritton *b*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18.00	20.00	20.00
Midland *d*	21.00	20 30	19.45	19.37	19.37	19.00	19.00	20.00	28.00	32.00	32.00	30.00	26 00

Note *a*—Power delivered at 46,000, 26,400 or 22,000 volts.
Note *b*—Power delivered at 13,200 or 12,000 volts.

"F"—Continued
and Power Rates to Consumers

Power rates to consumers

1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
$ c.	cents	cents	cents	%	$ c.	cents	cents	cents	$ c.	%
1.00	3.5	2.3	0.15	10	1.00	3.0	2.0	0.5	3.00	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.45	10
1.00	3.6	2.4	0.15	10	1.00	3.2	2.1	0.5	3.15	10
1.00	7.1	4.7	0.15	10	1.00	6.8	4.6	0.5	5.25	10
....	...	...	....	..	....	...	...	...	....	..
....	...	...	....	..	1.00	6.8	4.6	0.15	....	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	4.2	2.8	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	3.6	2.4	0.15	10	1.00	3.2	2.1	0.5	3.15	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	3.1	2.0	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	6.4	4.3	0.15	10	1.00	5.6	3.8	0.5	4.60	10
....	...	...	....	..	1.00	2.0	1.4	0.5	2.50	10
1.00	2.6	1.8	0.15	10	1.00	2.6	1.8	0.5	2.85	10
1.00	8.7	5.8	0.15	10	1.00	8.7	5.8	0.5	....	10
1.00	2.5	1.7	0.15	10	1.00	2.	1.4	0.5	2.50	10
1.00	7.1	4.7	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	4.1	2.7	0.15	10	1.00	4.1	2.7	0.5	3.65	10
1.00	4.8	3.2	0.15	10	1.00	4.8	3.2	0.5	4.10	10
1.00	6.8	4.6	0.15	10	1.00	6.6	4.4	0.5	5.10	10
....	...	...	....	..	....	...	...	...	....	..
1.00	5.2	3.5	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	3.2	2.1	0.15	10	1.00	2.7	1.8	0.5	2.95	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	....	10 & 10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.5	2.60	10
1.00	1.67	1.11	0.15	10 & 10	1.00	1.67	1.11	0.15	....	10 & 10
1.00	3.1	2.0	0.15	10	1.00	2.4	1.6	0.5	2.75	10
1.00	4.8	3.2	0.15	10	1.00	4.2	2.8	0.5	3.75	10
....	...	...	....	..	1.00	5.4	3.6	0.15	....	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	....	10
1.00	6.4	4.3	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	5.6	3.8	0.15	10	1.00	5.1	3.4	0.5	4.25	10
1.00	9.3	6.2	0.15	10	1.00	9.3	6.2	0.15	....	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.5	....	10
....	...	...	....	..	1.00	2.7	1.8	0.5	2.90	10
1.00	3.5	2.25	0.15	10	1.00	3.5	2.25	0.5	3.35	10
1.00	2.2	1.5	0.15	10	1.00	2.2	1.5	0.15	....	10
....	...	...	....	..	1.00	5.2	3.5	0.15	....	10
1.00	7.8	5.2	0.15	10	1.00	7.4	4.9	0.5	5.60	10
1.00	5.4	3.6	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	1.83	1.233	0.156	10 & 10	1.00	1.83	1.233	0.156	....	10 & 10
....	...	...	....	..	1.00	5.4	3.6	0.15	....	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.45	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.15	....	10
1.00	4.2	2.8	0.15	10	1.00	3.5	2.3	0.15	....	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	8.6	5.7	0.15	10	1.00	8.6	5.7	0.5	6.25	10
....	...	...	....	..	1.00	6.8	4.6	0.15	....	10
1.00	3.8	2.5	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	2.33	1.56	0.167	10 & 10	1.00	2.33	1.56	0.167	....	10 & 10
....	...	...	....	..	1.25	3.5	2.3	0.5	3.33	10
1.00	3.9	2.6	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	....	10
1.00	4.2	2.8	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	7.8	5.2	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.15	....	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	8.0	5.3	0.15	10	1.00	8.0	5.3	0.5	5.90	10
1.00	5.4	3.6	0.15	10	1.00	4.9	3.3	0.5	4.20	10
1.00	7.4	4.9	0.15	10	1.00	5.8	3.9	0.5	4.68	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	....	10 & 10
1.00	2.00	1.4	0.15	10	1.00	1.9	1.2	0.5	2.10	10 & 10

Note *c*—Power delivered at 6,600 volts.
Note *d*—Power delivered at 4,000 or 2,200 volts.

STATEMENT
Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year												
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Milton...b	.....	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	32.00	32.00	32.00
Milverton...d	.....	.....	.....	.....	35.63	35.63	35.63	35.00	35.00	35.00	35.00	35.00	37.00
Mimico...d	30.74	30.00	28.00	28.00	28.00	27.00	27.00	25.00	21.00	21.00	26.00	30.00	30.00
Mitchell...a	38.00	37.00	37.00	37.00	37.00	36.00	36.00	36.00	36.00	36.00	37.00	37.00	37.00
Moorefield...d	.....	.....	.....	.....	.....	.....	63.93	63.00	70.00	70.00	70.00	75.00	75.00
Mount Brydges...d	.....	.....	.....	46.56	46.56	46.56	46.56	50.00	70.00	70.00	76.00	70.00	60.00
Mount Forest...d	.....	.....	.....	.....	34.51	34.51	34.51	40.00	55.00	65.00	65.00	60.00	58.00
Neustadt...d	.....	.....	.....	.....	.....	.....	.....	42.50	45.00	55.00	55.00	45.00	45.00
Newbury...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	67.10	67.10	67.10	58.00
New Hamburg...d	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	38.00	38.00	38.00
New Toronto...d	.....	.....	28.00	28.00	28.00	27.00	27.00	25.00	20.00	22.00	26.00	30.00	30.00
Niagara Falls...b and d	.....	.....	.....	.....	11.50	11.50	11.50	11.50	11.50	12.50	17.50	18.00	18.00
Niagara-on-the-Lake...b	.....	.....	.....	.....	.....	.....	.....	.....	28.00	28.00	26.00	26.00	26.00
Norwich...d	30.00	32.00	32.00	32.00	38.00	38.00	38.00	35.00	35.00	35.00	39.00	40.00	36.00
Norwood...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38.00	38.00	35.00
Oil Springs...d	.....	.....	.....	.....	.....	.....	38.54	38.00	43.00	43.00	48.00	40.00	35.00
Omemee...d	.....	.....	.....	.....	.....	.....	39.39	39.39	39.39	39.39	39.39	35.00	35.00
Orangeville...d	.....	.....	.....	.....	35.00	35.00	35.00	35.00	55.00	65.00	65.00	60.00	60.00
Ottawa...a	15.00	15.00	15.00	14.00	14.00	14 00	14.00	14.00	14.00	13.50	13.00	12.00	12.00
Otterville...d	.....	.....	.....	.....	45.00	45.00	45.00	50.00	50.00	50.00	52.00	52.00	50.00
Owen Sound...d	.....	.....	.....	.....	31.00	31.00	31.00	28.00	28.00	30.00	40.00	35.00	35.00
Paisley...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	115.00	80.00
Palmerston...d	.....	.....	.....	.....	40.82	40.82	40.82	45.00	50.00	45.00	45.00	45.00	44.00
Paris...a	.....	.....	21.00	21.00	21.00	21.00	21.00	20.00	19.00	21.00	26.00	28.00	28.00
Parkhill...d	.....	.....	.....	.....	.....	.....	.....	.....	75.23	75.00	75.00	70.00	63.00
Penetang...d	28.80	26.50	26.50	26.50	26.50	22.00	22.00	22.00	32.00	30.00	30.00	30.00	27.00
Perth...d	.....	.....	.....	.....	.....	.....	.....	32.00	32.00	45.00	45.00	45.00	47.50
Peterboro...a	.....	.....	18.00	18.00	17.70	17.70	17.50	17.50	17.50	17.50	22.50	22.50	22.50
Petrolia...d	.....	.....	.....	.....	36.26	36.26	36.26	36.00	36.00	36.00	36.00	36.00	36.00
Plattsville...d	.....	.....	.....	49.27	49.27	49.27	49.27	60.00	65.00	65.00	75.00	90.00	90.00
Picton...d	.....	.....	.....	.....	.....	.....	.....	69.14	69.14	69.14	52.00	52.00	48.00
Point Edward...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.42	40.00
Port Arthur...a	20.30	19.50	22.25	22.71	20.75	20.75	19.75	19.75	.....	.....	21.00	21.00	21.00
Port Colborne...a	.....	.....	.....	.....	.....	.....	.....	.....	21.00	21.00	25.00	27.00	27.00
Port Credit...d	36.79	31.00	28.00	28.00	27.00	27.00	27.00	25.00	23.00	23.00	28.00	35.00	32.00
Port Dalhousie...d	.....	22.30	21.42	22.49	24.31	25.81	24.85	21.56	17.00	17.00	22.00	24.00	26.00
Port Dover...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.00	60.00	45.00
Port McNicoll...d	.....	.....	.....	35.00	35.00	25.00	25.00	35.00	85.00	85.00	40.00	30.00	28.00
Port Perry...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90.00	90.00	70.00
Port Stanley...d	59.75	55.50	43.85	50.90	49.53	46.78	45.54	53.03	53.00	50.00	50.00	48.00	45.00
Prescott...d	.....	.....	39.59	28.67	25.00	25.00	25.00	.....	44.93	55.00	52.00	45.00	40.00
Preston...c	25.00	21.50	21.00	21.00	20.00	19.00	19.00	19.00	19.00	22.00	27.00	27.00	27.00
Priceville...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.00	65.00	65.00
Princeton...d	.....	.....	.....	65.95	65.95	65.95	65.95	70.00	85.00	90.00	90.00	75.00	75.00
Queenston...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18.42	20.00	20.00
Ridgetown...d	.....	.....	.....	.....	47.17	47.17	47.17	47.00	47.00	45.00	45.00	45.00	40.00
Ripley...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.00	70.00	80.00
Riverside...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.75	45.00	40.00
Rockwood...d	.....	38.00	38.00	38.00	38.00	38.00	38.00	38.00	55.00	55.00	65.00	60.00	55.00
Rodney...d	.....	.....	.....	.....	.....	63.00	63.00	63.00	63.00	55.00	50.00	48.00	48.00
St. Catharines...b	.....	.....	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	18.25	20.00	20.00
St. Clair Beach...d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75.59	75.00	50.00
St. George...d	.....	.....	.....	38.78	38.78	38.78	38.78	45.00	45.00	45.00	49.00	40.00	40.00
St. Jacobs...d	.....	.....	.....	.....	.....	32.44	42.18	32.00	32.00	35.00	40.00	40.00	40.00
St. Mary's...b	38.00	29.50	29.50	29.50	28.00	28.00	28.00	28.00	28.00	32.00	35.00	35.00	35.00
St. Thomas...b	32.00	29.00	28.00	28.00	27.00	26.00	26.00	24.00	24.00	25.00	30.00	30.00	30.00
Sandwich...d	.....	.....	Serv	ed by	Win	dsor	.....	.....	.....	.....	.....	.....	.....
Sarnia...a	.....	.....	.....	.....	38.00	38.00	38.00	38.00	36.00	35.00	35.00	35.00	35.00
Scarboro Twp...d	.....	.....	.....	.....	.....	.....	.....	25.00	25.00	28.00	35.00	35.00	33.00
Seaforth...a	41.00	40.00	40.00	40.00	40.00	38.00	38.00	38.00	36.00	36.00	40.00	40.00	40.00
Shelburne...d	.....	.....	.....	.....	30.00	30.00	30.00	30.00	38.00	50.00	50.00	50.00	45.00
Simcoe...a	.....	.....	.....	35.00	35.00	35.00	35.00	32.00	28.00	28.00	34.00	34.00	31.00
Smiths Falls...d	.....	.....	.....	.....	.....	.....	28.00	28.00	28.00	40.00	40.00	40.00	40.00
Springfield...d	.....	.....	.....	.....	.....	65.00	65.00	65.00	65.00	65.00	65.00	65.00	75.00
Stamford Twp...b	.....	.....	.....	.....	.....	.....	16.57	15.00	15.00	16.00	20.00	20.00	20.00

Note *a*—Power delivered at 46,000, 26,400 or 22,000 volts.
Note *b*—Power delivered at 13,200 or 12,000 volts.

"F"—Continued
and Power Rates to Consumers

Power rates to consumers

1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.*	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
$ c.	cents	cents	cents	%	5 c.	cents	cents	cents	cents	%
1.00	2.5	1.7	0.15	10	1.00	2.9	1.9	0.5	3.00	10
1.00	3.3	2.2	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	2.8	1.8	0.15	10	1.00	3.1	2.	0.5	3.10	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	....	10
1.00	7.1	4.7	0.15	10	1.00	6.8	4.6	0 5	5.25	10
1.00	6.1	4.1	0.15	10	1.00	5.6	3.8	0.5	4 60	10
1.00	4.2	2.8	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.70	10
1.00	8.1	5.4	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	3.6	2.4	0.15	10	1.00	3.9	2.6	0.5	3 60	10
1.00	2.2	1.5	0.15	10	1.00	2.	1.4	0.5	2.50	10
1.00	1.83	1.233	0.156	10 & 10	1.00	1.83	1.233	0.156	....	10 & 10
1.00	2.5	1.7	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	3.5	2.3	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	3.9	2.6	0.15	10	1.00	3.9	2.6	0.15	....	10
1.00	4.2	2.8	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	4.5	3.0	0.15	10	1.00	3.5	2.3	0.15	....	10
1.00	3.6	2.4	0.15	10	1.00	3.1	2.1	0.5	3.20	10
1.00	1.8	1.2	0.15	15 & 10	1.00	1.8	1.2	0.15	....	15 & 10
1.00	4.7	3.1	0.15	10	1.00	4.7	3.1	0.5	4.00	10
1.00	2.0	1.4	0.15	10	1.00	2.2	1.5	0.5	2.45	10 & 10
1.00	9.3	6.2	0.15	10	1.00	7.2	4.8	0.5	5.45	10
1.00	4.7	3.1	0.15	10	1.00	4.5	3.0	0.5	3.90	10
1.00	2.0	1.33	0.167	10 & 10	1.00	2.0	1.33	0.5	2.25	10 & 10
1.00	7.1	4.7	0.15	10	1.00	6.2	4.2	0.5	4.95	10
1.00	2.0	1.4	0.15	10	1.00	2.1	1.3	0.5	2.25	10 & 10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	1.3	0.8	0.1	10 & 10	1.00	1.3	0.8	0.1	....	10 & 10
1.00	3.1	2.0	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	5.6	3.8	0.15	10	1.00	4.2	2.8	0.15	....	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	1.75	1.0	0.1	10	1.00	1.75	1.0	0.1	....	10
1.00	2.8	1.8	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.8	1.8	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.2	1.5	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	7.4	4.9	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	7.5	5.0	0.15	10	1.00	7.2	4.8	0.5	5.45	10
1.00	5.4	3.6	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	3.6	2.4	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	2.6	1.8	0.15	10	1.00	2.6	1.8	0.15	....	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.5	2.50	10
1.00	3.6	2.4	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	5.6	3.8	0.15	10	1.00	5.1	3.4	0.5	4.25	10
1.00	1.867	1.267	0.16	25 & 10	1.00	1.867	1.267	0.16	....	25 & 10
1.00	7.1	4.7	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	3.3	2.2	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	3.5	2.3	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	1.83	1.233	0.156	10 & 10	1 00	1.83	1.233	0.156	....	10 & 10
1.00	3.1	2.0	0.15	10	1.00	2.9	1.9	0.5	3.00	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	4.5	3.0	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	3.6	2.4	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	3.8	2.5	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.5	3.35	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	2.0	1.33	0.167	10 & 10	1.00	2.0	1.33	0.5	2.25	10 & 10

Note *c*—Power delivered at 6,600 volts.
Note *d*—Power delivered at 4,000 or 2,200 volts.

STATEMENT

Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year												
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Stayner *d*	.....	.....	37.82	37.82	37.82	35.00	35.00	35.00	40.00	40.00	45.00	40 00	38.00
Stouffville *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70.00	70.00
Stratford *a*	32.00	30.00	30.00	30.00	29.00	27.00	27.00	25.00	25.00	27.00	30.00	30.00	30.00
Strathroy *b*	.....	.....	.....	44.07	44.07	44 07	44.01	42.00	40.00	37.00	40.00	40.00	38.00
Sunderland *d*	.....	.....	.....	82.68	81.00	50.00	50.00	55.00	85.00	85.00	85.00	75.00	75.00
Sutton *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70 00	70.00
Tara *d*	.....	.....	.....	.....	.....	.....	37.00	37.00	85.00	90.00	90.00	90.00	93.00
Tavistock *d*	.....	.....	.....	.....	.....	78.28	37.01	36.00	35.00	35.00	37.00	37.00	43.00
Tecumseh *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.07	52.00	45.00
Teeswater *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.00	50.00	50.00
Thamesford *d*	.....	.....	45.00	45.00	45.00	45.00	45.00	50.00	50.00	50.00	54.00	50.00	47.00
Thamesville *d*	.....	.....	.....	.....	45.40	45.40	45.40	50.00	60.00	55.00	55.00	50.00	50.00
Thedford *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	110.00	110.00	80.00
Thorndale *d*	.....	.....	45.00	45.00	45.00	45.00	45.00	50.00	60.00	60.00	70.00	70.00	70.00
Thornton *d*	.....	.....	.....	.....	.....	.....	43.00	43.00	85.00	85.00	85.00	85.00	85.00
Thorold *b*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22.25	22.25	20.00
Tilbury *d*	.....	.....	.....	39.45	39.45	39.45	39.45	45.00	50.00	50.00	50.00	45.00	40.00
Tillsonburg *b*	32.00	32.00	32.00	32.00	35.00	35.00	35.00	32.00	30.00	30.00	39.00	45.00	40.00
Toronto *b*	18.50	15.00	15.00	15.00	14.50	14.50	14.50	14.50	14.50	17.00	22.00	24.00	24.00
Toronto Twp *d*	.....	.....	.....	.....	.....	.....	.....	25.00	25.00	25.00	30.00	30.00	30.00
Tottenham *d*	.....	.....	.....	.....	.....	.....	51.00	51.00	85.00	90.00	90.00	90.00	96.00
Trafalgar Twp	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Uxbridge *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90.00	90 00	73.00
Vaughan Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.00	36.00	36.00
Victoria Harbour *d*	.....	.....	.....	35.00	35.00	35.00	35.00	35.00	50.00	45.00	45.00	40.00	40.00
Walkerville *a*	.....	.....	38.00	38.00	38.00	38.00	38.00	36.00	36.00	35.00	35.00	33.00	33.00
Wallaceburg *d*	.....	.....	.....	38.45	38.45	38.45	38.45	38.00	38.45	35.00	35.00	35.00	35.00
Wardsville *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82.20	82.20	77.00
Warkworth *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	85.51	85.51
Waterdown *d*	37.50	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	31.00	36.00	36.00	40.00
Waterford *d*	.....	.....	.....	39.00	39.00	39.00	39.00	39.00	33.00	33.00	38.00	35.00	34.00
Waterloo *b*	26.00	23.50	22.50	22.50	22.00	21.00	21.00	20.00	20.00	21.00	26.00	28.00	28.00
Watford *d*	.....	.....	.....	.....	.....	59.45	59.45	65.00	85.00	85.00	85.00	70.00	60.00
Waubaushene *d*	.....	.....	.....	35.00	35.00	25.00	25.00	30.00	45.00	45.00	45.00	40.00	40.00
Welland *b*	.....	14.50	14.00	14.00	14.00	14.00	14.00	14.00	14.00	16.00	20.00	23.00	23.00
Wellesley *d*	.....	.....	.....	.....	.....	39.96	39.96	39.00	39.00	39.00	43.00	44.00	44.00
Wellington *d*	.....	.....	.....	.....	.....	.....	.....	52.76	52.76	52.76	50.00	50 00	46.00
West Lorne *d*	.....	.....	.....	.....	.....	55.60	55.60	55.00	55.00	50.00	45.00	40.00	40.00
Weston *b*	30.00	30.00	30.00	30.00	30.00	30.00	30.00	25.00	23.00	23.00	29.00	30.00	28.00
Wheatly *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	91.00
Williamsburg *d*	.....	.....	.....	25.09	30.00	30.00	30.00	30.00	50.00	73.89	95.00	75.00	65.00
Winchester *d*	.....	.....	38.28	39.54	43.00	43.00	43.00	43.00	69.84	85.00	85.00	65.00	60.00
‡Windsor *a*	.....	.....	38.00	38.00	38.00	38.00	38.00	36.00	36.00	35.00	35.00	33.00	30.00
Wingham *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.00	55.00	59.00
Woodbridge *d*	.....	.....	.....	33.83	33.83	33.83	33.83	33.00	31.00	31.00	37.00	38.00	36.00
Woodstock *b*	26.00	23.00	23.00	23.00	23.00	21.00	21.00	20.00	20.00	21.00	27.00	28.00	28.00
Woodville *d*	.....	.....	.....	70.24	70.00	50.00	50.00	55.00	80.00	80.00	80.00	75.00	65.00
Wyoming *d*	.....	.....	.....	.....	38.34	38.34	38.34	38.00	60.00	60.00	60.00	62.00	62.00
York Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
York East Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
York North Twp *d*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35.00	35.00
Zurich *d*	.....	.....	.....	.....	.....	.....	69.34	69.00	60.00	60.00	74.00	74.00	68.00

Note *a*—Power delivered at 46,000, 26,400 or 22,000 volts.
Note *b*—Power delivered at 13,200 or 12,000 volts.
‡Windsor rates for 60 cycle power are 25% higher than rates given here.

"F"—Continued

and Power Rates to Consumers

Power rates to consumers

1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
$ c.	cents	cents	cents	%	$ c.	cents	cents	cents	$ c.	%
1.00	4.2	2.8	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	2.8	1.8	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	2.9	1.9	0.15	10	1.00	2.6	1.8	0.5	2.85	10
1.00	6.8	4.6	0.15	10	1.00	6.6	4.4	0.5	5.10	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	2.2	1.5	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	4.9	3.3	0.15	10	1.00	4.5	3.0	0.5	3.90	10
1.00	5.1	3.4	0.15	10	1.00	4.5	3.0	0.5	3.90	10
1.00	9.0	6.0	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	2.0	1.4	0.15	10	1.00	2.11	1.39	0.5	2.35	10 & 10
1.00	4.2	2.8	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	3.6	2.4	0.15	10	1.00	3.5	2.3	0.5	3.35	10
†A.C. 1.25 & 1.00 †D.C. 1.35 & 1.00	1.5	0.75	0.4	10	†A.C. 1.25 & 1.00 †D.C. 1.35 & 1.00	1.5	0.75	0.4	....	10
	2.5	1.25	0.6	10		2.5	1.25	0.6	....	10
1.00	4.2	2.8	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
....	...	...	....	..	1.00	3.5	2.3	1.0	....	10
1.00	7.5	5.0	0.15	10	1.00	7.2	4.8	0.5	5.45	10
1.00	5.5	3.7	0.15	10	1.00	5.5	3.7	0.5	4.50	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	2.9	1.9	0.15	10	1.00	2.9	1.9	0.5	3.00	10
1.00	2.9	1.9	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	8.6	5.7	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	10.7	7.2	0.15	10	1.00	10.7	7.2	0.15	....	10
1.00	3.3	2.2	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	3.1	2.0	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	2.2	1.5	0.15	10	1.00	2.2	1.5	0.5	2.60	10
1.00	6.4	4.3	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.20	10
1.00	2.33	1.56	0.167	10 & 10	1.00	2.33	1.56	0.167	....	10 & 10
1.00	4.7	3.1	0.15	10	1.00	4.3	2.9	0.5	3.85	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	....	10
1.00	4.3	2.9	0.15	10	1.00	3.1	2.	0.5	3.10	10
1.00	2.2	1.5	0.15	10	1.00	2.3	1.6	0.5	2.65	10
....	...	...	....	...	1.00	9.0	6.0	0.15	....	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	2.9	1.9	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.45	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.15	....	10
1.00	6.8	4.6	0.15	10	1.00	6.6	4.4	0.5	5.10	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	2.	1.4	0.15	10	1.00	2.	1.4	0.5	2.50	10
....	...	...	....	..	1.00	2.0	1.4	0.5	2.50	10
1.00	3.9	2.6	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	6.1	4.1	0.15	10	1.00	5.6	3.8	0.5	4.60	10

Note *c*—Power delivered at 6,600 volts.
Note *d*—Power delivered at 4,000 or 2,200 volts.
†1.25 and 1.35 for 1st 10 h.p. 1.00 for all additional h.p.

STATEMENT

Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr per 100 sq. ft. per kw-hr.	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
Acton	3	3	1.5	0.75	6	3	0.6	0.75	10
Agincourt	3	5.5	2	1.00	11	5.5	1.1	1.00	10
Ailsa Craig	3	4	2	0.75	8	4	0.8	0.75	10
Alexandria	3	7	2	1.50	14	7	1.4	2.00	10
Alliston	3	6	2	1.00	12	6	1.2	1.00	10
Alvinston	3	8	2	1.50	16	8	1.6	1.50	10
Ancaster	3	5	2	0.75	10	5	1	0.75	10
Apple Hill	3	7	2	1.50	14	7	1.4	2.00	10
Arthur	3	8	2	1.50	16	8	1.6	1.50	10
Aylmer	3	3	1.5	0.75	6	3	0.6	0.75	10
Ayr	3	3	1.5	1.00	6	3	0.6	1.00	10
Baden	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Barrie	3	2	1	0.75	4	2	0.4	0.75	10+10
Barton Twp	3	3	1.5	1.00	6	3	0.6	1.00	10
Beachville	3	3	1.5	0.75	6	3	0.6	0.75	10
Beaverton	3	4	2	1.00	8	4	0.8	1.00	10
Beeton	3	6	2	1.50	12	6	1.2	1.50	10
Belle River	3	8	2	1.50	16	8	1.6	1.50	10
Blenheim	3	3	1.5	0.75	6	3	0.6	0.75	10
Bloomfield	3	7	2	1.00	14	7	1.4	1.00	10
Blyth	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bolton	3	6	2	1.00	12	6	1.2	1.00	10
Bothwell	3	4	2	1.00	8	4	0.8	1.00	10
Bradford	3	8	2	1.50	16	8	1.6	1.50	10
Brampton	3	2	1	0.75	4	2	0.4	0.75	10
Brantford	3	2	1	0.75	3.5	1.75	0.35	0.75	10
Brantford Twp	3	3	1.5	1.00	6	3	0.6	1.00	10
Brechin	3	8	2	1.50	16	8	1.6	1.50	10
Bridgeport	3	2.5	1.25	.....	5	2.5	0.5	.....	10
Brigden	3	6	2	1.00	12	6	1.2	1.00	10
Brockville	3	5	2	1.00	10	5	1	1.00	10
Brussels	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bullock's Corners and Greensville	3	4	2	.....	8	4	0.8	1.00	10
Burford	3	6	2	1.25	12	6	1.2	1.25	10
Burgessville	3	5.5	2	0.75	11	5.5	1.1	0.75	10
Caledonia	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Cannington	3	4	2	1.25	8	4	0.8	1.25	10
Carleton Place	3	4	2	1.00	8	4	0.8	1.00	10
Chatham	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Chatsworth	3	6	2	1.50	12	6	1.2	1.50	10
Chesley	3	5	2	1.00	10	5	1	1.00	10
Chesterville	3	6	2	1.50	12	6	1.2	1.50	10
Chippawa	3	3	1.5	1.00	6	3	0.6	1.00	10
Clifford	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clinton	3	3	1.5	0.75	6	3	0.6	0.75	10

"G"

Rates in Hydro Municipalities

1924

Domestic service				Commercial light				
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	Prompt payment discount
cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	5	2.5	1.00	10	5	1	1.00	10
33	4	2	0.75	8	4	1	0.75	10
33	6	2	1.50	12	6	1.2	2.00	10
33	5	2	1.00	10	5	1	1.00	10
33	6	2	1.50	12	6	1.2	1.50	10
33	5	2	0.75	10	5	1	0.75	10
33	6	2	1.50	12	6	1.2	2.00	10
33	6	2	2.00	12	6	1.2	1.50–3.00	10
33	2	1	0.75	4	2	1	.75	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10+10
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
33	5	2	1.50	10	5	1	1.50	10
33	6	2	1.50	12	6	1.2	1.50	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
			Same	rates as in	1923			
33	7	2	2.50	14	7	1.4	2.50	10
33	5	2	1.00	10	5	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
33	7	2	1.50	14	7	1.4	1.50	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
33	3	1.5	1.00	6	3	1	1.00	10
33	7	2	1.50	14	7	1.4	1.50	10
			Same	rates as in	1923			
33	5	2	1.50	10	5	1	1.50	10
33	3	1.5	.75	6	3	1	.75	10
33	6	2	2.50	12	6	1.2	2.50	10
			Same	rates as in	1923			
33	5	2	1.25	10	5	1	1.25	10
33	5	2	1.00	10	5	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	3	1.5	1.25	6	3	1	1.25	10
33	4	2	1.00	8	4	1	1.00	10
33	2.5	1.25	0.75	4	2	1	0.75	10
33	5	2	1.50	10	5	1	1.50	10
33	4	2	1.00	8	4	1	1.00	10
33	4	2	1.25	8	4	1	1.25	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	6	2	2.50	12	6	1.2	2.50	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10

STATEMENT

Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr.	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
Coldwater	3	4	2	1.00	8	4	0.8	1.00	10
Collingwood	3	2	1	0.75	4	2	0.4	0.75	10
Comber	3	5	2	1.25	10	5	1	1.25	10
Cookstown	3	6	2	1.50	12	6	1.2	1.50	10
Courtright	3	8	2	2.75	16	8	1.6	2.75	10
Creemore	3	4	2	1.00	8	4	0.8	1.00	10
Dashwood	3	7	2	1.25	14	7	1.4	1.25	10
Delaware	3	6	2	1.25	12	6	1.2	1.25	10
Dereham Twp.				Rural	Rates				
Dorchester	3	4	2	0.75	8	4	0.8	0.75	10
Drayton	3	6	2	1.25	12	6	1.2	1.25	10
Dresden	3	3	1.5	0.75	6	3	0.6	0.75	10
Drumbo	3	5	2	1.00	10	5	1	1.00	10
Dublin	3	5	2	1.50	12	6	1.2	1.50	10
Dundalk	3	4	2	1.00	8	4	0.8	1.00	10
Dundas	3	2	1	0.75	5	2.5	0.5	0.75	10
Dunnville	3	4	2	0.75	8	4	0.8	0.75	10
Durham	3	4	2	1.00	8	4	0.8	1.00	10
Dutton	3	3	1.5	0.75	6	3	0.6	0.75	10
Elmira	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Elmvale	3	3	1.5	1.00	6	3	0.6	1.00	10
Elmwood	3	5	2	1.25	10	5	1	1.25	10
Elora	3	3	1.5	0.75	6	3	0.6	0.75	10
Embro	3	6	2	1.50	12	6	1.2	1.50	10
Erieau	.....	7.5	2	1B 1.90 1C 3.38	.....	7.5	2.0	1B 1.90 1C 3.38	10
Essex	3	7	3.5	0.75	14	7	1.4	0.75	10
Etobicoke Twp.	3	4	2	0.75	8	4	0.8	0.75	10
Exeter	3	3.5	1.75	0.75	7	3.5	0.7	0.75	10
Fergus	3	3	1.5	0.75	6	3	0.6	0.75	10
Flesherton	3	4	2	1.50	8	4	0.8	1.50	10
Ford City	3	3	1.5	0.75	6	3	0.6	0.75	10
Forest	3	5	2	1.00	10	5	1	1.00	10
Forest Hill	.....	.....	.....	.....	.....	.....	.....	.....	.....
Galt	3	2	1	0.75	4	2	0.4	0.75	10
Gamebridge	3+50c.	8	2	1.50	16	8	1.6	1.50	10
Georgetown	3	2	1	0.75	4	2	0.4	0.75	10
Glencoe	3	5	2	1.00	10	5	1	1.00	10
Glen Williams, ext.	3	4	2	0.75	8	4	0.8	0.75	10
Goderich	3	3.5	1.75	0.75	7	3.5	0.7	0.75	10
Grand Valley	3	6	2	1.25	12	6	1.2	1.25	10
Grantham Twp.				Rural	Rates				
Granton	3	4	2	1.00	8	4	0.8	1.00	10
Gravenhurst	3	3.5	1.75	1.00	7	3.5	0.7	1.00	10
Guelph	3	2	1	0.75	4	2	0.4	0.75	10
Hagersville	3	2	1	0.75	4	2	0.4	0.75	10

"G"—Continued

Rates in Hydro Municipalities

1924

Domestic service				Commercial light				
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	Prompt payment discount
cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	2	1	.75	4	2	1	.75	10
33	4	2	2.25	8	4	1	1.25	10
33	5	2	1.50	10	5	1	1.50	10
			Same	rates as in	1923			
33	2.5	1.25	.75	5	2.5	1	.75	10
33	6	2	1.25	12	6	1.2	1.25	10
33	5	2	1.25	10	5	1	1.25	10
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
33	5	2	1.25	10	5	1	1.25	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	5	2	1.50	10	5	1	1.50	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	5	2	1.25	10	5	1	1.25	10
33	2	1	0.75	4	2	1.6	0.75	10
33	4.5	2	1.50	9	4.5	1	1.50	10
			Same	rates as in	1923			
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	3.5	1.25	1.50	7	3.5	1	1.50	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	3	1.5	0.75	6	3	1	0.75	10
33	2*	1	0.75	4	2†	1	0.75	10
33+50c.	8	2	1.50	16	8	1.6	1.50	10
33	2	1	0.75	4	2	1	0.75	10
33	3.5	1.75	1.00	7	3.5	1	1.00	10
33	3	1.5	0.75	6	3	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	5	2	1.25	10	5	1	1.25	10
			Rural	Rates				
33	3	1.5	1.00	6	3	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
			Same	rates as in	1923			
33	2	1	0.75	4	2	1	0.75	10

*First 100 kw-hrs. per month. †Next 70 hrs. per kw-hr.

STATEMENT

Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	Prompt payment discount
	cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
Hamilton	3	2	1	0.75	3.5	1.75	0.35	0.75	10
Hanover	3	3	1.5	0.75	6	3	0.6	0.75	10
Harriston	3	4	2	1.00	8	4	0.8	1.00	10
Harrow	3	6.5	3.25	0.75	13	6.5	1.3	0.75	10
Havelock	3	5.5	2	0.75	11	5.5	1.1	0.75	10
Hensall	3	6	2	1.25	12	6	1.2	1.25	10
Hespeler	3	2.5	1.25	1.00	5	2.5	0.5	0.75	10
Highgate	3	5	2	1.00	10	5	1	1.00	10
Holstein	3	9	2	1.50	18	9	1.8	1.50	10
Horning's Mills	3	7	2	1.50	14	7	1.4	1.50	10
Humberstone	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntsville	3	6	2	1.00	12	6	1.2	1.00	10
Ingersoll	3	2	1	0.75	4	2	0.4	0.75	10
Jarvis	3	6	2	1.50	12	6	1.2	1.50	10
Kemptville	3	6	2	1.50	12	6	1.2	2.00	10
Kincardine	3	6	2	1.50	12	6	1.2	1.50	10
Kingston	3	3	1.5	0.75	6	3	1	0.75	10
Kingsville	3	6.5	3.25	0.75	13	6.5	1.3	0.25	10
Kirkfield	3	5	2	1.50	10	5	1	1.50	10
Kitchener	3	2	1	0.75	4	2	0.4	0.75	10
Lakefield	3	5.5	2	1.00	11	5.5	1.1	1.00	10
Lambeth	3	5	2	1.25	10	5	1	1.25	10
Lanark	3	7	2	1.50	14	7	1.4	2.00	10
Lancaster	3	8	2	1.75	16	8	1.6	2.50	10
Leamington	3	7	3.5	0.75	14	7	1.4	0.75	10
Listowel	3	3	1.5	0.75	6	3	0.6	0.75	10
London	3	2	1	0.75	4	2	0.4	0.75	10
London Twp. V.A.	6	4	2	1.00	8	4	0.8	1.00	10
Lucan	3	4	2	0.75	8	4	0.8	0.75	10
Lucknow	3	6	2	1.50	12	6	1.2	1.50	10
Lynden	3	4	2	1.25	8	4	0.8	1.25	10
Markdale	3	3	1.5	1.00	6	3	0.6	1.00	10
Markham	3	6	2	1.00	12	6	1.2	1.00	10
Marmora	3	6	2	1.00	12	6	1.2	1.00	10
Martintown	3	7	2	1.50	14	7	1.4	2.00	10
Maxville	3	8	2	1.50	16	8	1.6	2.00	10
Meaford	3	6	2	1.50	12	6	1.2	1.50	10
Merlin	3	8	2	1.80	16	8	1.6	2.25	10
Merritton	3	2	1	0.75	4	2	0.4	0.75	10
Midland	3	2	1	0.75	4	2	0.4	0.75	10
Milton	3	3	1.5	0.75	6	3	0.6	0.75	10
Milverton	3	3.5	1.75	0.75	7	3.5	0.7	0.75	10
Mimico	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Mitchell	3	3	1.5	0.75	6	3	0.6	0.75	10
Moorefield	3	7	2	1.50	14	7	1.4	1.50	10

"G"—Continued

Rates in Hydro Municipalities

1924

Domestic service				Commercial light				
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	Prompt payment discount
cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
			Same	rates as in	1923			
			Same	rates as in	1923			
33	5	2	1.25	10	5	1	1.25	10
33	2	1	1.00	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
			Same	rates as in	1923			
33	7	2	1.50	14	7	1.4	1.50	10
33	3.0	1.5	0.75	6	3	1.0	0.75	10
33	5	2	1.00	10	5	1	1.00	10
			Same	rates as in	1923			
			Same	rates as in	1923			
33	4	2	1.25	8	4	1	1.50	10
33	5	2	1.50	10	5	1	1.50	10
			Same	rates as in	1923			
			Same	rates as in	1923			
33	4	2	1.50	8	4	1	1.50	10
			Same	rates as in	1923			
			Same	rates as in	1923			
33	4	2	1.25	8	4	1	1.25	10
33	6	2	1.50	12	6	1.2	2.00	10
33	8	2	1.75	16	8	1.6	2.50	10
			Same	rates as in	1923			
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
			Same	rates as in	1923			
33	3	1.5	1.25	6	3	1	1.25	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	5	2	1.00	10	5	1	1.00	10
			Same	rates as in	1923			
33	7	2	1.50	14	7	1.4	2.00	10
33	8	2	1.50	16	8	1.6	2.00	10
33	5	2	1.50	10	5	1	1.50	10
33	6	2	1.50	12	6	1.2	2.00	10
			Same	rates as in	1923			
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1	0.75	6	3	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
33	6	2	1.50	12	6	1.2	1.50	10

STATEMENT

Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
Mount Brydges	3	5	2	1.25	10	5	1	1.25	10
Mount Forest	3	4	2	1.00	8	4	0.8	1.00	10
Neustadt	3	6	2	1.50	12	6	1.2	1.50	10
Newbury	3	8	2	1.00	16	8	1.6	1.00	10
New Hamburg	3	3	1.5	0.75	6	3	0.6	0.75	10
New Toronto	3	3	1.5	0.75	6	3	0.6	0.75	10
Niagara Falls	3	2	1	0.75	4	2	0.4	0.75	10
Niagara-on-the Lake	3	2	1	0.75	4	2	0.4	0.75	10
Norwich	3	3	1.5	0.75	6	3	0.6	0.75	10
Norwood	3	5	2	0.75	10	5	1	0.75	10
Oil Springs	3	5	2	1.00	10	5	1	1.00	10
Omemee	3	4	2	1.00	8	4	0.8	1.00	10
Orangeville	3	4	2	1.00	8	4	1	1.00	10
Ottawa	3	2	1.5	0.75	5	2.2	0.5	0.75	10
Otterville	3	4	2	1.00	8	4	0.8	1.00	10
Owen Sound	3	2	1	0.75	4	2	0.4	0.75	10
Paisley	3	8	2	2.00	16	8	1.6	1.50 to 3.00	10
Palmerston	3	3	1.5	0.75	6	3	0.6	0.75	10
Paris	3	2	1	0.75	4	2	0.4	0.75	10
Parkhill	3	5	2	1.25	10	5	1	1.25	10
Penetang	3	3	1.5	1.00	6	3	0.6	1.00	10
Perth	3	4	2	1.00	8	4	0.8	1.00	10
Peterboro'	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Petrolia	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Plattsville	3	6	2	1.50	12	6	1.2	1.50	10
Picton	3	3	1.5	0.75	6	3	0.6	0.75	10
Point Edward	3	3	1.5	0.75	6	3	0.6	0.75	10
Port Arthur	3	2	1	0.75	5	2.5	0.5	0.75	10
Port Colborne	3	3	1.5	0.75	6	3	0.6	0.75	10
Port Credit	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Port Dalhousie	3	4	2	0.75	8	4	0.8	0.75	10
Port Dover	3	6	2	1.25	12	6	1.2	1.25	10
Port McNicoll	3	4	2	1.25	8	4	0.8	1.25	10
Port Perry	3	8	2	2.00	16	8	1.6	1.00 to 2.00	10
Port Stanley	3	4	2	0.75	8	4	0.8	0.75	10
Prescott	3	3	1.5	1.00	6	3	0.6	1.00	10
Preston	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Priceville	3	8	2	1.50	16	8	1.6	1.50	10
Princeton	3	6	2	1.50	12	6	1.2	1.50	10
Queenston	3	3	1.5	1.25	6	3	0.6	1.25	10

"G"—Continued

Rates in Hydro Municipalities

1924

Domestic service				Commercial light				
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	Prompt payment discount
cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
33	4	2	1.25	8	4	1	1.25	10
33	3	1.5	1.00	6	3	1	1.00	10
33	6	2	1.50	12	6	1.2	1.50	10
33	6	2	1.00	12	6	1.2	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
33	4	2	1.00	8	4	1	1.00	10
			Same	rates as in	1923			
33	3.5	1.75	1.00	7	3.5	1	1.00	10
			Same	rates as in	1923			
33	3	1.5	1.00	6	3	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	7	2	2.00	14	7	1.4	1.50 to 3.00	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
			Same	rates as in	1923			
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	5	2	1.50	10	5	1	1.50	10
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
			Same	rates as in	1923			
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	4	2	1.25	8	4	1	1.25	10
33	3	1.5	1.00	6	3	1	1.00	10
33	6	2	1.50	2	6	1.2	1.00 to 1.50	10
33	3	1.5	0.75	6	3	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
33	7	3.5	1.50	14	7	1.4	1.50	10
33	5	2	1.50	10	5	1	1.50	10
33	2.5	1.25	1.25	5	2.5	1	1.25	10

STATEMENT

Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
Ridgetown	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Ripley	3	7.5	2	1.50	15	7.5	1.5	1.50	10
Riverside	3	5	2	1.25	10	5	1	1.25	10
Rockwood	3	3	1.5	1.00	6	3	0.6	1.00	10
Rodney	3	4	2	0.75	8	4	0.8	0.75	10
St. Catharines	3	2	1	0.75	3.5	1.75	0.35	0.75	10
St. Clair Beach	3	7	2	2.00	14	7	1.4	2.00	10
St. George	3	3	1.5	0.75	6	3	0.6	0.75	10
St. Jacobs	3	4	2	1.00	8	4	0.8	1.00	10
St. Marys	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
St. Thomas	3	2	1	0.75	4	2	0.4	0.75	10
Sandwich	3	4	2	0.75	8	4	0.8	0.75	10
Sarnia	3	3	1.5	0.75	6	3	0.6	0.75	10
Scarboro Twp.	3	4	2	0.75	8	4	0.8	0.75	10
Seaforth	3	3	1.5	0.75	6	3	0.6	0.75	10
Shelburne	3	5	2	1.25	10	5	1	1.25	10
Simcoe	3	2	1	0.75	4	2	0.4	0.75	10
Smiths Falls	3	5	2	1.00	10	5	1	1.00	10
Springfield	3	6	2	1.00	12	6	1.2	1.00	10
Stamford Twp.	3	3	1.5	0.75	6	3	0.6	0.75	10
Stayner	3	4	2	1.00	8	4	0.8	1.00	10
Stouffville	3	8	2	1.00	16	8	1.6	1.00	10
Stratford	3	2	1	0.75	4	2	0.4	0.75	10
Strathroy	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Sunderland	3	6	2	1.25	12	6	1.2	1.25	10
Sutton	3	8	2	1.00	16	8	1.6	1.00	10
Tara	3	8	2	1.50	16	8	1.6	1.50 to 3.00	10
Tavistock	3	2.5	1.25	1.00	5	2.5	0.5	1.00	10
Tecumseh	3	5	2	1.50	10	5	1	1.50	10
Teeswater	3	5	2	1.50	10	5	1	1.50	10
Thamesford	3	5	2	1.00	10	5	1	1.00	10
Thamesville	3	4	2	1.00	8	4	0.8	1.00	10
Thedford	3	8	2	1.50	16	8	1.6	1.50	10
Thorndale	3	6	2	1.25	12	6	1.2	1.25	10
Thornton	3	7	2	1.50	14	7	1.4	1.50	10
Thorold	3	2	1	0.75	5	2	0.5	0.75	10
Tilbury	3	4	2	1.00	8	4	0.8	1.00	10
Tillsonburg	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Toronto	3	2	1	0.75	5	3	1	0.75	10
Toronto Twp.	1.50	4	2	.....	.....	.....	.....	.....	.....

"G"—Continued

Rates in Hydro Municipalities

1924

Domestic service				Commercial light				
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	Prompt payment discount
cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
33	2	1	0.75	4	2	1	0.75	10
33	7.5	2	2.00	15	7.5	1.5	2.00	10
33	4	2	1.25	8	4	1	1.25	10
33	2	1	1.00	4	2	1	1.00	10
33	3	1.5	0.75	6	3	1	0.75	10
			Same	rates as in	1923			
33	6	2	2.00	12	6	1.2	2.00	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	5	2	1.00	10	5	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	6	2	1.00	12	6	1.2	1.00	10
33	2.5*	1.25	0.75	5	2.5†	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	5	2	1.25	10	5	1	1.25	10
33	6	2	1.00	12	6	1.2	1.00	10
33	7	2	1.50	14	7	1.4	1.50 to 3.00	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	5	2	1.50	10	5	1	1.50	10
33	5	2	1.50	10	5	1	1.50	10
33	4	2	1.00	8	4	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
33	6	2	1.50	12	6	1.2	1.50	10
33	5	2	1.25	10	5	1	1.25	10
33	6	2	1.50	12	6	1.2	1.50	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
75	4	2	1.00	8	4	1	1.00	10

*First 90 kw-hrs. per month. †Next 100 hrs. per kw-hr.

STATEMENT

Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
Tottenham	3	7	2	1.50	14	7	1.4	1.50	10
Trafalgar Twp.	3+1.00	5	2	2.00	10+1.00	5	1	2.00	10
Uxbridge	3	8	2	2.00	16	8	1.6	1.00 to 2.00	10
Vaughan Twp.				Rural	Rates				
Victoria Harbor	3	4	2	1.00	8	4	0.8	1.00	10
Walkerville	3	3	1.5	0.75	6	3	0.6	0.75	10
Wallaceburg	3	3	1.5	0.75	6	3	0.6	0.75	10
Wardsville	3	8	2	1.50	16	8	1.6	1.50	10
Warkworth	3	8	2	2.00–3.15	16	8	1.6	2.00–3.15	10
Waterdown	3	2	1	0.75	4	2	0.4	0.75	10
Waterford	3	2	1	0.75	4	2	0.4	0.75	10
Waterloo	3	2	1	0.75	4	2	0.4	0.75	10
Watford	3	5	2	1.00	10	5	1	1.00	10
Waubaushene	3	4	2	1.00	8	4	0.8	1.00	10
Welland	3	2	1	0.75	4	2	0.4	0.75	10
Wellesley	3	4	2	1.00	8	4	0.8	1.00	10
Wellington	3	6	2	1.00	12	6	1.2	1.00	10
West Lorne	3	4	2	0.75	8	4	0.8	0.75	10
Weston	3	2	1	0.75	4	2	0.4	0.75	10
Wheatley	3	9	2	2.00	18	9	1.8	2.00	10
Williamsburg	3	5	2	1.50	10	5	1	1.50	10
Winchester	3	5	2	1.25	10	5	1	1.25	10
Windsor	3	3	1.5	0.75	6	3	0.6	0.75	10
Wingham	3	5	2	1.00	10	5	1	1.00	10
Woodbridge	3	3	1.5	0.75	6	3	0.6	0.75	10
Woodstock	3	2	1	0.75	4	2	0.4	0.75	10
Woodville	3	6	2	1.25	12	6	1.2	1.25	10
Wyoming	3	6	2	1.00	12	6	1.2	1.00	10
York Twp.	3	3	1.5	0.75	6	3	0.6	0.75	10
York E. Twp.	3	3	1.5	0.75	6	3	0.6	0.75	10
York N. Twp.	3	6	2	1.00	12	6	1.2	1.00	10
Zurich	3	5	2	1.25	10	5	1	1.25	10

"G"—Concluded

Rates in Hydro Municipalities

1924

Domestic service				Commercial light				
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	Prompt payment discount
cents	cents	cents	$ c.	cents	cents	cents	$ c.	%
33	6	2	1.50	12	6	1.2	1.50	10
			Same	rates as in	1923			
33	6	2	1.50	12	6	1.2	1.00 to 1.50	10
			Rural	Rates				
33	3	1.5	1.00	6	3	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	6	2	1.50	12	6	1.2	1.50	10
			Same	rates as in	1923			
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
			Same	rates as in	1923			
33	3	1.5	1.00	6	3	1	1.00	10
			Same	rates as in	1923			
33	3	1.5	0.75	6	3	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
33	4	2	1.50	8	4	1	1.50	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	5	2	1.00	10	5	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in	1923			
33	5	2	1.25	10	5	1	1.25	10
33	5	2	1.00	10	5	1	1.00	10
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	5	2	1.00	10	5	1	1.00	10
33	4	2	1.25	8	4	1	1.25	10

APPENDIX I

ACTS

Chapter 23, 1924.

An Act to amend The Power Commission Act.

Assented to 17th April, 1924.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

Short title.

1. This Act may be cited as *The Power Commission Act, 1924.*

Rev. Stat. c. 39, s. 5, subs. 1, (1915, c. 19, s. 2), repealed.

2. Subsection 1 of section 5 of *The Power Commission Act*, as re-enacted by section 2 of *The Power Commission Act, 1915*, is repealed.

Rev. Stat. c. 39, s. 6e (1918, c. 14, s. 4), amended.

3. Section 6*e* of *The Power Commission Act*, as enacted by section 4 of *The Power Commission Act, 1918*, is amended by adding at the end thereof the words "or in securities guaranteed by the Province of Ontario."

Rev. Stat. c. 39, amended.

4. *The Power Commission Act* is amended by adding thereto the following section:

Powers of Commission.

9*a* In the exercise of the powers conferred and in carrying out any work authorized by this Act or any other general or special Act, the Commission has and always has had authority to carry its wires along, upon, under and across any public highway or street, and to erect poles and put down conduits and all other structures necessary for that purpose, and to take down, remove, or take up the same without taking any of the proceedings prescribed by this Act for the taking of land without the consent of the owner thereof, and the provisions of this Act with regard to compensation for lands so taken shall not apply, but the location of any poles, conduits, lines or other structures of the Commission to be hereafter erected, put down or constructed upon a highway shall be agreed upon by the Commission and the municipal corporation or other authority having control of the highway, or in case of disagreement shall be determined by the Ontario Railway and Municipal Board.

Where by reason of improvements or alteration on a highway, work becomes necessary on the poles, wires, conduits, transformers or any other structure of the Commission, such work shall be done by the Commission and the cost thereof and all services rendered in connection therewith as certified by the auditor of the Commission shall be borne equally by the Commission and the municipal corporation, board, or other authority having control of the highway.

Rev. Stat. c. 39, s. 15, (1918, c. 14, s. 7), amended.

5. Subsection 1 of section 15 of *The Power Commission Act* as enacted by section 7 of *The Power Commission Act, 1918*, is amended by inserting after the words "securities of" in the fourth line the words "or guaranteed by."

Rev. Stat. c. 39, s, 19*a*, subs. 1 (1917, c. 20, s. 8), amended.

6. Clause *a* of subsection 1 of section 19*a* of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, is amended by adding after the word "constructing" in the second line the words "acquiring, reconstructing, extending."

Rev. Stat. c. 39, s. 19*a*, subs. 2 (1917, c. 20, s. 8), repealed.

7. Subsection 2 of section 19*a* of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, is repealed and the following substituted therefor:

Sectional township by-law.

(2) The council of a township by by-law may from time to time set apart a portion of the township as to which any of the by-laws passed under subsection 1 may have effect and may submit the by-law for the establishment of such works or for entering into such contract to the municipal electors qualified to vote on money by-laws in the portion of the township so set apart.

Enlarging, altering or varying section.

(2*a*) The council with the approval of the Commission may from time to time enlarge, alter or vary the boundaries of any such area or incorporate with it any other such area.

Rev. Stat. c. 39, s. 19*a*, subs. 3 (1917, c. 20, s. 8), amended.

8. Subsection 3 of section 19*a* of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, is amended by adding after the words "subsection 2" the words "or subsection 2*a*" and by adding at the end of the said subsection the words "or as enlarged, altered or varied and notwithstanding anything contained in *The Consolidated Municipal Act, 1922*, or in any other Act it shall not be necessary to obtain the assent of the electors to the by-law for the issue of such debentures."

Rev. Stat. c. 39, s. 19*a*, subs. 4 (1917, c. 20, s. 8), amended.

9. Subsection 4 of section 19*a* of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, and amended by section 3 of *The Power Commission Act, 1922*, is further amended by striking out the words "for the district so set apart" in the third and fourth lines, and by striking out the words "shall be residents of such district" in the sixth and seventh lines, and inserting in lieu thereof the words "shall be residents of the district so set apart or as enlarged, altered or varied."

10. The clause lettered *c* in section 23 of *The Power Commission Act* as amended by section 4 of *The Power Commission Act, 1914*, section 11 of *The Power Commission Act, 1915*, section 11 of *The Power Commission Act, 1918*, and section 3 of *The Power Commission Act, 1919*, is further amended by striking out the words and figures "and such sum not exceeding $15,000 per annum as the Lieutenant-Governor in Council may direct to be paid to the chairman and other members of the Commission as remuneration for their services in addition to any sum payable to them out of the Consolidated Revenue Fund" and inserting in lieu thereof, the words and figures, "and such sum not exceeding $45,000 per annum as the Lieutenant-Governor in Council may direct to be paid to the chairman and other members of the Commission as remuneration for their services, including the services of any member of the Commission as director or otherwise in connection with a company owned or controlled by the Commission, or the capital stock or assets of which have been acquired by the Commission." Rev. Stat. c. 39, s. 23, cl. *c*, amended.

11.—(1) Section 23*b* of *The Power Commission Act* as enacted by section 13 of *The Power Commission Act, 1918*, is amended by adding at the end thereof the words "and the Commission from time to time on such conditions as may be deemed equitable or advisable may include in any such system one or more other such municipalities whether already part of any system or not or may unite any two or more systems in one system and may join in a system two or more such municipalities whether already part of any system or not and for the purposes of this section a portion set apart under section 19*a* or a rural power district may be considered as a municipality. Rev. Stat. c. 39, s. 23*b*, (1918, c. 14, s. 7), amended. Alteration in power systems.

(2) The amendment made by subsection 1 shall have effect as from the 1st day of November, 1922. Amendment retroactive.

12. Section 30 of *The Power Commission Act* is amended by striking out all the words following the words "by Part I" in the sixth line. Rev. Stat. c. 39, s. 30, amended.

13. Section 30*e* of *The Power Commission Act* as enacted by section 4 of *The Power Commission Act, 1922*, is amended by inserting after the word "may" in the twelfth line the words "on behalf of the municipal corporation"; by inserting after the word "construct" in the twelfth line the words "acquire, reconstruct, extend"; and by inserting after the words "rural power district" in the sixteenth and seventeenth lines the words "who have entered into a contract for electrical power or energy with the municipal corporation of the township in which each such person resides." Rev. Stat. c. 39, s. 30*e*, (1922, c. 31, s. 4), amended.

14. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat. c. 39, amended.

30*ee*. Whenever the municipal corporation of any such township at the time of entering into the contract has been operating a distribution system for distributing electrical power or energy to inhabitants of the township or has a contract with Changing from any other method of supply to rural power district.

the Commission for a supply of electrical power or energy under any other part of this Act, the Commission, with the approval of the municipal corporation, may take over, acquire, reconstruct, extend and operate such distribution system and may adopt and perform the contracts with the customers thereof and may incorporate such system in a rural power district.

Rev. Stat. c. 39, s. 30*f*, (1920, c. 18, s. 5), repealed.

15. Section 30*f* of *The Power Commission Act* as enacted by section 5 of *The Power Commission Act, 1920*, is repealed and the following substituted therefor:

Rural power district assent of electors not required.

30*f*. The council of the township or the council of each of the townships entering into a contract under either of the next two preceding sections may pass a by-law for entering into such contract and may execute the same, and it shall not be necessary to submit any such by-law to the vote of the electors or to comply with any of the other forms required in the case of a by-law passed under Part I of this Act.

Rev. Stat. c. 39, s. 30*j* (1920, c. 18, s. 5), amended.

16. Section 30*j* of *The Power Commission Act* as enacted by section 5 of *The Power Commission Act, 1920*, is repealed.

Rev. Stat. c. 39, s. 37 (1916, c. 19, s. 10), repealed

17. Section 37 of *The Power Commission Act* as re-enacted by section 10 of *The Power Commission Act, 1916*, and amended by section 12 of *The Power Commission Act, 1917*, and section 15 of *The Power Commission Act, 1918*, is repealed and the following substituted therefor:

Power to make regulations.

37.—(1) The Commission may, with the approval of the Lieutenant-Governor in Council make rules and regulations,—

Regulations as to plant, machinery, etc.

(*a*) prescribing the design, construction, installation, protection, use, maintenance, repair, extension, alteration, connection and disconnection of all installations, plant, machinery, apparatus, applicances, devices, fittings, materials and equipment and other works and matters used or to be used in the generation, transformation, transmission, distribution, supply or utilization of electrical power or energy in Ontario;

Prohibiting use until authorized.

(*b*) prohibiting the use in Ontario of any such works or matters until the same shall have been inspected and approved;

Prohibiting advertising or sale in unauthorized manner.

(*c*) prohibiting the advertising or display or offering for sale or other disposal, and the sale or other disposal, publicly or privately in Ontario, of any such works or matters unless and until the same shall have been inspected and approved, and prescribing the precautions to be taken in the sale or other disposal of

such works or matters and the warnings and instructions to be given to purchasers and others in advertisements and by circular or otherwise in order to prevent their use in such manner or under such conditions as may be likely to result in undue hazard to persons or property;

(*d*) providing for the inspection, test and approval of all such works and matters before being used for any such purposes. Inspection test and approval.

(2) The Commission may from time to time prepare and issue plans and specifications governing the design, construction and test of any of the works or matters mentioned in subsection 1, and may from time to time amend or alter such plans and specifications. Issuing of plans and specifications.

(3) The Commission may at any time issue such orders relating to work to be done in the installation, removal, alteration, repair, protection, connection or disconnection of any of the works or matters mentioned in subsection 1 as the Commission may deem necessary for the safety of the public or of workmen or for the protection of property. Orders relating to installations, alterations, etc.

(4) The Commission may appoint such inspectors and other officers as it may deem necessary for the purposes of this section. Appointment of inspectorial staff.

(5) The Commission may prescribe the fees to be paid for permits and for inspection, test and approval of all such works and matters mentioned in subsection 1 and of plans and specifications relating thereto, and may prescribe also the time and manner of payment of such fees. Fees for permits, inspection, test and approval.

(6) The Commission shall collect the fees prescribed by it under the authority of subsection 5 and shall provide for the remuneration, travelling and other expenses of the said inspectors and other qualified persons, together with all other expenses incurred in carrying out the provisions of this section, out of the said fees and out of any fines imposed for breach of any of the provisions of this section or of any rules, regulations, plans, specifications or orders made under the authority thereof, and out of the funds appropriated for carrying out the work of the Commission. Collection and disposition of fees and fines.

(7) Every inspector appointed under the authority of this section may, at any reasonable hour enter upon, pass over or through any land, building or premises for the purpose of performing the duties assigned to him under the authority of this section. Powers of inspectors.

Liability.

(8) Nothing in this Act or in any of the rules or regulations, plans, specifications or orders issued under the authority of this section shall render the Commission or any of its inspectors or other employees liable, or shall affect the liability of any municipal or other corporation or commission, company, firm or individual, for any injury, loss or other damages caused to any person or property by reason of defects in any of the works or matters mentioned in this section or by reason of any order of the Commission notwithstanding any inspection or test or the issue of any certificate by the Commission or by any of its inspectors or other employees.

Penalty for interference.

(9) (*a*) Every municipal or other corporation or commission, and every company, firm or individual hindering, molesting, disturbing or interfering with an inspector or other employee in the performance of his duty under this section shall incur a penalty of not less than $10 nor more than $50 for each and every offence.

Penalty for disobedience to regulations.

(*b*) Every municipal or other corporation or commission, and every company, firm or individual refusing or neglecting to comply with the provisions of this section or with any rule or regulation, plan or specification made under the authority thereof, shall incur a penalty of not less than $10 nor more than $50 for each and every such offence.

Penalty for disobedience to order.

(*c*) Every municipal or other corporation or commission, and every company, firm or individual refusing or neglecting to comply with any order issued by the Commission under the authority of subsection 3 shall incur a penalty of not less than $100 nor more than $500 and a further penalty of not less than $100 nor more than $500 for each and every separate day upon which such refusal or neglect is repeated or continued.

Recovery of penalties.

(*d*) The penalties imposed by or under the authority of this section shall be recoverable under *The Ontario Summary Convictions Act* and shall be paid over to the Commission.

Section not to apply to mines.

(10) This section shall not apply to any mine as defined under *The Mining Act of Ontario* save only as regards any dwelling house or other building not connected with or required for mining operations or purposes or used for the treatment of ore or mineral.

Rev. Stat. c. 39, amended.

18. *The Power Commission Act* is amended by adding thereto the following sections:

Collection of arrears on direction from Commission.

38*a*. Where it appears to the Commission upon the examination of the accounts of any municipal corporation or municipal commission receiving power from the Commission under a contract between the municipal corporation and the Commission under this Act, that there are arrears due and owing for electrical power or energy supplied by the municipal corporation or municipal commission or for rents, rates, costs and charges in connection with the service or supply of such power or energy or for the installation of any works for such service or supply and that the municipal corporation or municipal commission has not taken the necessary proceedings for the collection of such arrears, the Commission may give such directions as it may deem proper in writing, signed by the chairman or secretary, for the collection of the arrears by any method by which the same may be collected, and it shall be the duty of the municipal corporation or municipal commission forthwith after receiving such directions to take all proceedings necessary to carry the same into effect.

Offences and penalties.

38*b*. Where a municipal corporation or a municipal commission receiving electrical power or energy from the Commission under a contract with the Commission entered into in pursuance of the provisions of this Act,—.

(*a*) supplies electrical power or energy to any person upon terms and at rates other than those which have been approved of by the Commission;

(*b*) grants to any person to whom electrical power or energy is supplied by the municipal corporation or commission, special terms by way of bonus or otherwise as to the rates to be paid for electrical power or energy, or as to the terms at which the same are to be supplied;

(*c*) neglects or refuses to carry out any direction of the Commission given under section 38*a*;

(*d*) by any means whatsoever, directly or indirectly reduces the cost of electrical power or energy to any individual, firm or corporation so that the same is supplied to such individual, firm or corporation at a lower rate or upon better terms than those approved of by the Commission;

(*e*) fails to keep account in the manner prescribed by the Commission or makes improper entries therein or charges against any account items not properly chargeable thereto;

such municipal corporation or municipal commission shall be guilty of an offence and every member of the municipal council of such municipal corporation or every member of the municipal commission as the case may be, shall be disqualified from sitting and voting in the council or from election thereto, or from acting as a member of the municipal commission or being appointed thereto, and from holding any other municipal office for a period of five years from the date of judgment or order declaring his disqualification and proceedings may be taken against him in the same manner as in the case of a member of a municipal council who has become disqualified or has forfeited his seat under the provisions of *The Consolidated Municipal Act, 1922;* Provided that no member of the municipal council or of the municipal commission as the case may be, shall be found to be so disqualified who proves to the satisfaction of the court or judge before whom the application for a declaration of his disqualification is made, that he was not a party to the offence and that he did everything in his power to prevent the commission of the same.

Proviso.

When default made Commission may take action.

38*c*. Where a municipal corporation or commission neglects or refuses to carry out any of the provisions of this Act or any direction or regulation lawfully given or made hereunder, the Commission, if it deems necessary or desirable so to do, may appoint some person or persons to do whatever is necessary to remedy such neglect or default and to comply with this Act or any such direction or regulation, and the reasonable and proper costs and charges incurred by the commission in so doing shall be a debt due and payable by the municipal corporation or municipal commission to the Commission and shall be added to and shall be chargeable and collected with the charges set out in section 23 of this Act.

Rev. Stat. c. 39, amended.

19. *The Power Commission Act* is amended by adding thereto the following section:

Enforcing payment of arrears of rates and charges.

52. Where the Commission supplies or distributes power directly to the consumer either on its own behalf or by arrangement or under contract with the municipal corporation, the amount payable by the owner or occupant of any building or lot, or part of lot, for the electrical power or energy supplied to him for use therein or thereon, and all rents, rates, costs and charges in connection with the service or supply of such power or energy or the installation of any works for such service or supply shall be a lien and charge upon the building or lot or part of lot in the same manner and to the same extent as municipal taxes on land, and in default of payment the clerk of the municipality, upon being notified in writing by the Commission of the sum due, shall forthwith enter the

same upon the collector's roll and it shall be collected in the same manner as municipal taxes on land and upon recovery thereof shall be paid over to the Commission.

(*a*) For the purposes of this section electrical power or energy shall be deemed to be supplied to the consumer not only when it is actually used by the owner or occupant but when it is rendered available or held in reserve for him under the terms of his contract with the Commission or the municipal corporation.

By-laws confirmed.

20. By-law No. 1546 of the Corporation of the City of Guelph; By-laws Nos. 5 and 30 of the Corporation of the Town of Meaford; By-laws Nos. 511 and 512 of the Corporation of the Village of Stouffville; By-laws Nos. 8 and 12 of the Corporation of the Village of Courtright; By-laws Nos. 6 and 7 of 1923 of the Corporation of the Village of Clifford; By-law No. 146 of the Corporation of the Village of Victoria Harbor; By-laws Nos. 593, 710, 725 and 729 of the Corporation of the Village of Paisley; By-laws Nos. 128, 129, 137 and 142 of the Corporation of the Village of Wheatley; By-laws Nos. 5 and 6 of the Corporation of the Village of Brussels; By-laws Nos. 60 and 61 of the Corporation of the Village of Jarvis; By-laws Nos. 302 and 303 of the Corporation of the Village of Sutton; By-laws No. 4 of 1921 and 9 of 1923 of the Corporation of the Village of Blyth; By-law No. 658 of the Corporation of the Village of Fergus; By-laws Nos. 787 and 788 of the Corporation of the Township of Percy; By-law No. 928 of the Corporation of the Township of Delaware; By-law No. 30 of 1923 of the Corporation of the Township of Sombra; By-law No. 719 of the Corporation of the Township of Mosa; By-law No. 883 of the Corporation of the Township of Southwold; By-law No. 522 of the Corporation of the Township of Chinguacousy; By-law No. 422 of the Corporation of the Township of King; By-law No. 824 of the Corporation of the Township of Williamsburg; By-law No. 594 of the Corporation of the Township of Niagara; By-law No. 222 of the Corporation of the Township of Mersea; By-law No. 910 of the Corporation of the Township of Flos; By-law No. 391 of the Corporation of the Township of Middleton; By-law No. 494 of the Corporation of the Township of Kenyon; By-law No. 557 of the Corporation of the Township of Glanford; By-law No. 845 of the Corporation of the Township of Darlington; By-law No. 516 of the Corporation of the Township of Sunnidale; By-law No. 1076 of the Corporation of the Township of Malahide; By-law No. 10 of 1923 of the Corporation of the Township of Tilbury East; By-law No. 8 of 1923 of the Corporation of the Township of Sarnia; By-law No. 657 of the Corporation of the Township of South Dumfries; By-law No. 548 of the Corporation of the Township of Eldon; By-law No. 849 of the Corporation of the Township of Wellesley; By-law No. 923 of the Corporation of the Township of Murray; By-law No. 1335 of the Corporation of the Township of Barton; By-laws Nos. 281, 282, 283, 291, 293, 300 and 315 of the Corporation of the Township of Trafalgar; By-laws Nos. 62, 63, 66, 67, 77 and 79 of the Corporation of the Township of North

York; By-law No. 7376 of the Corporation of the Township of York; By-law No. 486 of the Corporation of the Town of Mimico; By-law No. 11 of 1923 of the Corporation of the Town of Dunnville; By-laws Nos. 3058, 3059, 3060, 3195, 3196, 3197, 3198, 3199 and 3210 of the Corporation of the City of Windsor; By-law No. 228 of the Corporation of the Village of Port Dover; By-law No. 527 of the Corporation of the Village of Fort Erie; By-law No. 1114 of the Corporation of the Town of Leamington; By-law No. 529 of the Corporation of the Town of Kingsville; and By-law No. 707 of the Corporation of the Town of Essex; and all debentures issued or to be issued or purporting to be issued, under any of the said by-laws which authorize the issue of debentures, are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof, respectively, and shall not be open to question upon any grounds whatsoever, notwithstanding the requirements of *The Power Commission Act*, or the amendments thereto, or any other Act of this Legislature.

Commencement of Act.

21. This Act shall come into force on the day upon which it receives the Royal Assent.

Chapter 24, 1924.

An Act respecting the Hydro-Electric Power Commission of Ontario and certain Companies and Corporations.

Assented to 17th April, 1924.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

Short title.

1. This Act may be cited as *The Power Commission and Companies Transfer Act, 1924.*

Companies authorized to contract with Commission for transfer of assets.

2. The Electrical Development Company of Ontario, Limited, The Hydro-Electric Power Commission of Ontario (hereinafter called "the Commission"), National Trust Company, Limited, The Toronto Power Company, Limited, and His Majesty the King, represented by the Lieutenant-Governor of the Province of Ontario acting by the Honourable G. Howard Ferguson, Prime Minister of the said Province, are authorized and empowered to execute the agreement set out in the schedule to this Act and upon the execution and delivery thereof the said agreement shall be legal, valid and binding upon the parties thereto and upon the *cestuis que trustent* under certain indentures of mortgage recited in the said agreement in the same manner and to the same extent as if the terms of the said agreement had been set out and enacted in the body of this Act, and the parties to the said agreement are respectively authorized and empowered to execute all instru-

ments and to do and provide for all matters necessary and expedient to be done and provided for to give effect to the said agreement according to the true intent and meaning thereof.

Effect of transfer.

3. Upon the execution and delivery of the said agreement all the properties, rights, assets and franchises of The Electrical Development Company of Ontario, Limited, shall be vested in the Commission but subject to the terms, covenants, agreements, provisoes and conditions referred to or set out in the said agreement and subject to the indenture of mortgage dated the 1st day of March, 1903, recited in the said agreement, and to the bonds secured by the said indenture of mortgage, and to all rights by the said indenture of mortgage and the said bonds reserved, and subject to the due observance, fulfilment and performance by the Commission of all covenants, agreements, provisoes, and conditions in the said indenture to be kept, observed and performed by the said The Electrical Development Company of Ontario, Limited.

Authority to contract with Ontario Power Co. and Transmission Co. for Transfer of assets.

4. The Commission is authorized and empowered to make with the Ontario Power Company of Niagara Falls and The Ontario Transmission Company, Limited, named in a certain agreement dated the 12th day of April, 1917, set out in Schedule "U" to *The Power Commission Act, 1918*, a contract or contracts for the sale and transfer to the Commission of all the properties, rights, assets and franchises of the said companies, and every such sale and transfer shall be legal, valid and binding upon the parties thereto and upon the *cestuis que trustent* under an indenture of mortgage dated the 2nd day of February, 1903, given by the Ontario Power Company of Niagara Falls to secure an issue of bonds of the said company, and under certain indentures of mortgage and agreements dated respectively the 16th day of August, 1905, the 20th day of April, 1910, the 11th day of June, 1910, and the 31st day of October, 1914, given or entered into by The Ontario Transmission Company, Limited, to secure an issue of bonds of that Company, and shall not constitute a breach of any covenant contained in such indentures and agreements nor cancel, annul or affect in any manner any contract entered into or any franchise or right held by either of the said companies prior to such sale or transfer, but every such sale or transfer shall be subject to such indentures and agreements and to the bonds secured thereby and to all rights by such indentures, agreements and bonds reserved.

Duties of Commission after entering into contract.

5. From and after the making of any contract or contracts for sale and transfer under section 4 of this Act, the Commission shall duly observe, fulfil and perform, and all present and future property of the Commission shall be subject to and charged with the due observance, fulfilment and performance of all agreements, covenants, provisoes, conditions, terms and obligations to be observed, fulfilled and performed by the Ontario Power Company of Niagara Falls and The Ontario Transmission Company, Limited, or either of them, or for the observance, fulfilment and performance of which the Ontario Power Company of Niagara Falls and The Ontario Transmission Company, Limited, are, or shall be, or either of them is, or shall be

liable under any and every indenture, agreement, contract or franchise which has been or shall be prior to any such contract or contracts for sale and transfer entered into or held by said companies or either of them, and every other party to any such indenture, agreement, contract or franchise shall have the same rights and remedies against the Commission, and its property, under and in respect thereof, including the right to enforce observance, fulfilment and performance thereof, and the right to recover damages for any failure in such observance, fulfilment and performance as such party has or at any time shall have, or but for such sale and transfer would have against said companies or either of them, or the property of said companies or either of them, and all such rights and remedies shall be enforceable against the Commission and its property by action or proceeding in any court of competent jurisdiction without fiat or consent.

Sale not to invalidate guarantees.

6. No sale and transfer under any contract made under section 4 of this Act shall invalidate, impair, modify or affect any of the guarantees contained in the agreement set out in Schedule "U" to *The Power Commission Act, 1918*, or in any agreement entered into pursuant thereto, but notwithstanding any such sale and transfer, all of said guarantees shall remain in full force and effect.

Amount of sinking fund payments.

7. After any sale and transfer under the provisions of section 4 of this Act, the sinking fund payments under the above-mentioned indenture made by the Ontario Power Company of Niagara Falls, dated the 2nd day of February, 1903, shall under any and all circumstances and without any necessary relation to the amount of power actually sold by the said company and paid for by the purchasers amount to not less than the sum of $125,000 in each year and shall be paid by the Commission on the 1st day of July in each year during the currency of the bonds by said indenture secured.

Commencement of Act.

8. This Act shall come into force on the day upon which it receives the Royal Assent.

SCHEDULE "A."

Agreement made as of the twenty-fifth day of March, 1924.

Between:

THE ELECTRICAL DEVELOPMENT COMPANY OF ONTARIO, LIMITED, hereinafter called "The Development Company,"

of the first part;

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO, hereinafter called "the Commission,"

of the second part;

NATIONAL TRUST COMPANY, LIMITED, Trustee for the bondholders of the Development Company under Indenture of Mortgage dated 1st March, 1903, hereinafter called "The Trustee,"

of the third part;

THE TORONTO POWER COMPANY, LIMITED, hereinafter called "the Toronto Company,"

of the fourth part;

—and—

HIS MAJESTY THE KING, herein represented by the Lieutenant-Governor in Council of the Province of Ontario, acting by The Honourable G. Howard Ferguson, Premier of the said Province, hereinafter called "the Guarantor,"

of the fifth part.

Whereas the Toronto and Niagara Power Company (hereinafter called "the Niagara Company") was incorporated by Special Act of the Parliament of Canada, 2 Edward VII, Cap. 107, and thereafter constructed and operated transmission lines from Niagara Falls, Ontario, to the City of Toronto and elsewhere;

And whereas the Niagara Company made an issue of first mortgage bonds to the par value of $1,500,000 secured by a mortgage, dated 1st March, 1903, on the said transmission lines and upon its undertaking generally, to National Trust Company Limited, Trustee;

And whereas all of the said bonds were and all of the shares in the capital stock of the Niagara Company are owned by the Development Company;

And whereas the Development Company pledged the said bonds and shares to the Trustee along with its own works, plant and undertaking to secure an issue of First Mortgage 5% bonds of $10,000,000 by Indenture of Mortgage dated 1st March, 1903 (hereinafter referred to as "the said Indenture") of which bonds there are outstanding at the date of this agreement bonds to the par value of $9,079,500 of which $5,014,000 are held by the Toronto Company;

And whereas by agreement dated the 11th day of March, 1919, the Toronto Electric Light Company (hereinafter called "the Electric Company") sold and conveyed to the Niagara Company all its assets consisting *inter alia* of a distribution system in the City of Toronto for the sum of $8,212,100, the Niagara Company as part of such consideration assuming the payment of two issues of bonds of the Electric Company secured on the said assets for $1,000,000 of first mortgage bonds and for $3,000,000 of second mortgage bonds respectively, the balance of the purchase price of $4,212,100 being represented by the Niagara Company's promissory note, the Electric Company reserving a vendor's lien in respect of such balance;

And whereas certain of the assets so purchased by the Niagara Company, consisting of a distribution system in the City of Toronto, were subsequently by agreement dated 20th December, 1921, sold to the corporation of the City of Toronto, subject to the said bonds of the Niagara Company and the mortgage securing the same, to the said bonds of the Electric Company and the mortgages securing the same and subject also to the vendor's lien securing to the Electric Company the balance of $4,212,100, aforesaid;

And whereas the said sale was in the interests of the Niagara Company and of the Development Company as owner of the share capital of the Niagara Company, and before or contemporaneously with the delivery of this agreement the mortgages securing the said bonds of the Electric Company, the said bonds and the said vendor's lien have all been discharged and cancelled;

And whereas the Niagara Company has before or contemporaneously with the delivery of this agreement, sold and assigned all its plant and physical assets, including the said transmission lines to the Development Company, the latter by the instrument of transfer subjecting such assets to the charge of the said Indenture in favour of the Trustee and to the bonds secured thereby;

And whereas the Trustee has before or contemporaneously with the delivery of this agreement, cancelled said $1,500,000 of bonds of the Niagara Company and executed a discharge to the Niagara Company of the mortgage securing the same, retaining as part of the mortgaged premises under the said Indenture all of the shares in the capital stock of the Niagara Company;

And whereas the Development Company is the owner of works for the generation of electric power at Niagara Falls, Ontario, and certain franchises, rights and other real and personal property including the said property and transmission lines acquired from the Niagara Company as well as all of the shares in the capital stock of The Toronto and Niagara Power Company as aforesaid, all of the said assets being hereinafter collectively referred to as "the said properties";

And whereas the Toronto Company owns all of the shares in the capital stock of the Development Company and the Commission owns all of the shares in the capital stock of the Toronto Company;

And whereas it is desirable for the more economic and convenient operation of the undertaking of the Commission that there be transferred to the Commission all of the said properties, subject to the said outstanding issue of bonds of the Development Company and to the said Indenture securing the same;

And whereas the Development Company and the Toronto Company have agreed to the said transfer;

And whereas the Trustee has been requested to consent to the said transfer and has agreed to do so in consideration of the making of this agreement;

Now this Agreement witnesseth as follows:

1. The sale by the Niagara Company to the corporation of the City of Toronto of such distribution system, the conveyance of its said other assets to the Development Company, and the cancellation by the Trustee of the bonds of the Niagara Company, as hereinbefore recited, are ratified and confirmed.

2. The Development Company hereby grants, bargains, sells, assigns, transfers, and sets over unto the Commission all the said properties, subject, however, to the said Indenture and to the bonds therein referred to and secured thereby and to all rights by the said Indenture and said bonds reserved, of which bonds there are outstanding at the date of this agreement bonds to the par value of $9,079,500, and subject to the due observance, fulfilment and performance by the Commission of all of the covenants, agreements, provisoes and conditions in the said Indenture to be kept, observed and performed by the Development Company. The sale of the said properties shall not cause or be held to be a breach of the covenant of the Development Company in the said Indenture contained to carry on and conduct its business.

3. The Commission covenants with the Trustee that subject as aforesaid the Commission will itself duly keep, observe, fulfil and perform all of the covenants, agreements and conditions in the said Indenture contained, to be by the Development Company kept, observed, fulfilled and performed.

4. The Toronto Company hereby consents to the said transfer and agrees with the Trustee that on any distribution to bondholders of the proceeds of realization which the Trustee may make under the terms of the said Indenture, (other than through the operation of the sinking fund), the Toronto Company, or other holders for the time being of the said $5,014,000 of Development Company bonds, shall not be entitled to receive from the Trustee any payment on account of the amount owing on the said bonds (other than through the operation of the said sinking fund) until the holders for the time being of the remaining bonds of the said issue amounting at this date to $4,065,500 par value shall have first been paid and satisfied in full, the intent being that the mortgaged premises under the said Indenture shall stand as a first security for the repayment of the said $4,065,500 of bonds in preference to and with priority over the remaining bonds of the said issue now held by the Toronto Company. And the Development Company and the Commission jointly and severally covenant and agree with the Trustee and with the holders for the time being of the said $4,065,500 of bonds of the Development Company, that they will not nor will either of them pay or discharge (otherwise than through the operation of the sinking fund) any portion of the said $5,014,000 of Development Company bonds now held by the Toronto Company until after payment and satisfaction in full has been made of the $4,065,500 of Development Company bonds above referred to, and the Toronto Company covenants with the Trustee and with the holders for the time being of the said $4,065,500 of bonds of the Development Company, that it will not at any time subsequent to the date of the agreement nor will any subsequent holders taking title through it, ask for, demand or receive payment of the said $5,014,000 of Development Company bonds or any part thereof now held by it (save through the operation of the said sinking fund) until after payment and satisfaction in full has been made of the said $4,065,500 of Development Company bonds as aforesaid.

Expressly reserving, however, to the Toronto Company or other the holders for the time being of the said $5,014,000 of bonds, in all other respects equally with the holders of the remaining bonds of the said issue, all rights and powers possessed by it or them respectively as the holder or holders of the said bonds, including the exercise of any right or power which under the terms of the said Indenture may be exercised by bondholders. Contemporaneously with the delivery of this agreement the Toronto Company shall produce to the Trustee all of the said $5,014,000 of bonds for the purpose of being stamped with a notice substantially in the following form, i.e.:

> By virtue of the Statutes of Ontario, 1924, Chapter 24 and of the agreement therein referred to neither the bearer nor registered holder, as the case may be, of this or any other bonds of the issue of which it and they form part, bearing this stamp, is entitled in the event of realization by the Trustee of the security of any part thereof provided by the Indenture of Mortgage within referred to or otherwise (except through the operation of the sinking fund) to receive any of the proceeds of such realization, nor can the Company pay nor the bearers or registered holders of this or such other bonds bearing this stamp receive payment otherwise of any of the moneys secured thereby until the principal and interest on all of the other bonds of the said issue not bearing this stamp have first been fully paid and satisfied.
>
> NATIONAL TRUST COMPANY, LIMITED,
> *Trustee.*

5. The Commission hereby guarantees to the Trustee and to the respective holders thereof for the time being, the due payment by the Development Company, as the same become due, of the principal of and interest on all of the said bonds of the Development Company secured by

the said Indenture outstanding at the date of this agreement other than those held by the Toronto Company so stamped as aforesaid, the par value of the said bonds to which this guarantee extends being the sum of $4,065,500.

6. The Guarantor covenants with and guarantees to the Trustees and with and to the respective holders for the time being of the bonds of the Development Company to which the next preceding paragraph number five applies, that the Commission will duly keep, observe and perform its covenant and guarantee for payment in the said next preceding paragraph number five contained.

7. The Commission and the Development Company jointly and severally covenant and agree with the Trustee that the annual sinking fund payment to be made by the Development Company to the Trustee under the provisions of paragraph Thirty of the said Indenture, shall under any circumstances and without any necessary relation to the amount of power actually sold by the Development Company and paid for by the purchasers, amount to not less than the sum of $90,000.00.

8. Wherever the Trustee is mentioned or referred to in this agreement such mention or reference shall, where the context admits, extend to and include the successors in the trust of the said Trustee.

In witness whereof this agreement has been executed by the parties hereto under their respective corporate seals and the hands of their proper officers in that behalf.

SIGNED, SEALED AND DELIVERED

in the presence of:

Chapter 25, 1924.

An Act to amend The Rural Hydro-Electric Distribution Act, 1921.

Assented to 17th April, 1924.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

1. This Act may be cited as *The Rural Hydro-Electric Distribution Act, 1924.* Short title.

2. Section 4 of *The Rural Hydro-Electric Distribution Act, 1921,* is amended by striking out the word "zone" in the last line but one and inserting in lieu thereof the word "district," and by inserting after the word "cables" in the last line but one, the words "service transformers and meters, and secondary lines on the highway" so that the section will now read as follows: 1921, c. 21, s. 4, amended.

4. Where power is supplied to a rural power district under the provisions of *The Power Commission Act* and amendments thereto, there may be paid to the municipality or commission distributing the power in such rural power district upon the recommendation of The Hydro-Electric Power Commission of Ontario and the order of the Lieutenant-Governor in Council, a sum not exceeding fifty per centum of the capital cost of constructing and erecting in the rural power district Where power supplied to rural power districts.

primary transmission lines and cables, service transformers and meters, and secondary lines on the highway required for the delivery of power in such rural power district.

1921, c. 21, s. 4*a*, (1923 c. 13, s. 2), amended.

3. Section 4*a* of *The Rural Hydro-Electric Distribution Act, 1921*, as enacted by section 2 of *The Rural Hydro-Electric Distribution Act, 1923*, is amended by inserting after the word "cables" in the last line but two the words "service transformers and meters, and secondary lines on the highway" so that the section will now read as follows:

Payment of grant where municipality is distributor of power.

4*a*. Where the corporation of a township or of an urban municipality supplies or distributes electrical power or energy in an adjoining township or within any such rural power district under the provisions of section 24 of *The Public Utilities Act*, or under any other general or special Act, there may be paid to such corporation upon the recommendation of The Hydro-Electric Power Commission of Ontario and the order of the Lieutenant-Governor in Council, a sum not exceeding fifty per centum of the capital cost of constructing and erecting in such adjoining township or rural power district, primary transmission lines and cables, service transformers and meters, and secondary lines on the highway required for the delivery of power or energy in such adjoining township or any such rural power district.

Payments may be retroactive.

4. The payments and allowances authorized by section 4 of *The Rural Hydro-Electric Distribution Act, 1921*, as amended by section 2 of this Act, and authorized by section 4*a* of the said *The Rural Hydro-Electric Distribution Act, 1921*, as enacted by section 2 of *The Rural Hydro-Electric Distribution Act, 1922*, and re-enacted by section 2 of *The Rural Hydro-Electric Distribution Act, 1923*, and amended by section 3 of this Act, may be made in respect of works constructed before or since the 1st day of June, 1921, and the said payments and allowances and the appropriations made at the present Session of the Legislature in aid of the construction of primary transmission lines in rural power districts and townships shall extend to and include the construction and erection of service transformers and meters, and secondary lines on highways as provided for in *The Rural Hydro-Electric Distribution Act* as amended by this Act.

Appropriations of 1923-1924 to extend to secondary lines, etc.

Commencement of Act.

5. This Act shall come into force on the day upon which it receives the Royal Assent.

Chapter 26, 1924.

An Act respecting The Hydro-Electric Railway Act, 1919, and the contract set out in Schedule "A" to said Act.

Assented to 17th April, 1924.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

Short title.

1. This Act may be cited as *The Hydro-Electric Railway Act, 1924.*

Auditor to certify as to expenses of H.E. Ry. from Port Credit to St. Catharines.

2. The auditor of The Hydro-Electric Power Commission of Ontario, upon the request in writing of the corporation of any of the townships of East Flamboro', North Grimsby and Barton, or of the corporation of the City of Hamilton shall fix and determine the total cost to the Commission, including interest charges, of all work and expenses incurred in connection with and properly chargeable to the railway from Port Credit to St. Catharines provided for in the contract set out in schedule "A" to *The Hydro-Electric Railway Act, 1919*, and shall certify the same to such municipal corporation, and upon payment or tender of the proper proportion of the amount so determined and certified, the Commission shall return to such municipal corporation the debentures issued by it and deposited with the Commission pursuant to the clause lettered *b* in the paragraph numbered 2 in the said contract, and to any resolution passed by the council of the municipal corporation under section 4 of *The Hydro-Electric Railway Act, 1919*.

Return of bonds to certain municipalities.

Proceeds of sales by Commission to be distributed to municipalities.

3. All moneys received by the Commission from the sale or other disposal of any real or personal property acquired by it for the purposes of the said railway shall be held by the Commission in trust for the municipal corporations parties to the said contract and shall be distributed among them in the same proportion as that in which they undertook to contribute under the said contract or under such resolution to the cost of the said railway at such times and in such manner as the Lieutenant-Governor in Council may direct.

Commencement of Act.

4. This Act shall come into force on the day upon which it receives the Royal Assent.

APPENDIX II

TABLE OF

TRANSFORMING STATION DETAIL

AS OF OCTOBER 31, 1924

TABLE OF TRANSFORMING STATION

The particulars given in this table refer to all transforming stations owned or operated by the Hydro-Electric Power Commission of Ontario on October 31, 1924.

Under the columns headed "Circuits" are given the complete number and voltage of circuits of all kinds which enter or leave a station except certain feeders that are not the property of the system.

Under "active" transformers are given all transformers actually in operation and in reserve except service transformers.

Station				Circuits			
				High voltage		Low voltage	
System number	Name	Date placed in operation	Type of building	Volts	No.	Volts	No.
							NIAGARA
N 1	Niagara trans. sta.	Aug. 1910	T.S. brick	110,000	4	12,000	12
		Aug. 1914	T.S. brick	.....	....	.....	....
		Aug. 1914	T.S. brick	46,000	4	.....	....
N 152	Beamsville dist. sta.	Jan. 1923	P. outdoor	12,000	1	4,000	1
N 142	Chippawa dist. sta.	Jan. 1923	P. outdoor	12,000	1	4,000	2
N 153	Grimsby dist. sta	Dec. 1922	P. outdoor	12,000	1	4,000	1
N 144	Lincoln dist. sta.	June 1924	P. outdoor	12,000	1	4,000	2
N 147	St. Davids dist. sta.	April 1924	P. outdoor	12,000	1	4,000	1
N 2	Dundas trans. sta.	Sept. 1910	T.S. brick	110,000	12	13,200	6
N 237	Caledonia dist. sta.	Sept. 1912	C. brick	13,200	1	2,300	2
N 246	Decewsville dist. sta.	Oct. 1924	P. outdoor	13,200	1	4,000	1
N2D 31	Dundas rural dist. sta.	May 1923	P. outdoor	13,200	1	4,000	2
N 239	Hagersville dist. sta.	Aug. 1913	D. brick	13,200	1	4,000	2
		June 1923	outdoor	.....	....	2,300	1
N 234	Lynden dist. sta.	Sept. 1915	E. brick	13,200	1	4,000	2
N 235	Waterdown dist. sta.	Feb. 1924	P. outdoor	13,200	1	4,000	2
	Toronto:						
N 3	Strachan Ave. trans. sta.	Feb. 1911	T.S. brick	110,000	3	13,200	31
N 31	Bridgman Ave. trans. sta.	Oct. 1924	outdoor	110,000	2	13,200	4
N 32	Wiltshire Ave. trans. sta.	Oct. 1924	outdoor	110,000	2	13,200	4
N3338	Blantyre dist. sta.	1912*a*	sheet metal	12,000	1	4,000	1
N3342	Bond Lake dist. sta.	1899*a*	brick	12,000	1	4,000	4
N3349	Keswick dist. sta.	1906*a*	sheet metal	12,000	1	4,000	2
N3352	Mount Joy dist. sta.	Sept. 1923	P. outdoor	12,000	1	4,000	2
N3346	Newmarket dist. sta.	1905*a*	brick	12,000	1	4,000	2
N3340	York Mills dist. sta.	1899*a*	brick	12,000	1	4,000	2
N 4	London trans. sta.	Nov. 1910	T.S. brick	110,000	5	13,200	8
N 442	Ailsa Craig dist. sta.	Jan. 1916	E. brick	13,200	1	4,000	2
N 432	Delaware dist. sta.	Mar. 1915	E. brick	13,200	1	4,000	3
N 439	Dorchester dist. sta.	Dec. 1914	E. brick	13,200	1	4,000	3
N 443	Exeter dist. sta.	May 1916	D. brick	13,200	1	4,000	4
N4D32	London rural dist. sta.	Jan. 1924	P. outdoor	13,200	1	4,000	1
N 440	Lucan dist. sta.	Feb. 1915	E. brick	13,200	1	4,000	2
N 5	Guelph trans. sta.	Sept. 1910	T.S. brick	110,000	3	13,200	5
N 537	Acton dist. sta.	Dec. 1912	B. brick	13,200	1	2,300	2
N 533	Elora dist. sta.	Nov. 1914	E. brick	13,200	1	4,000	1
N 534	Fergus dist. sta.	Nov. 1914	E. brick	13,200	1	2,300	1
N 539	Georgetown dist. sta.	Aug. 1913	D. brick	13,200	1	4,000	2
N 536	Rockwood dist. sta.	Aug. 1913	P. outdoor	13,200	1	2,300	1
N 6	Preston trans. sta.	Sept. 1910	T.S. brick	110,000	3	13,200	6
N6D 31	Preston rural dist. sta.	Mar. 1919	in Preston T.S.	13,200	1	4,000	1

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924

Transformers designated as "spare" are extra units at the station ready for emergency use, whereas those referred to as "reserve" are available for use in stations where and when increased capacity is required.

The total kv-a. of all transformers is 1,418,175 kv-a. made up of 1,257,305 kv-a. in operation, 51,660 kv-a. in reserve and 109,210 kv-a. spare.

There are 1,171,925 kv-a. of 25-cycle transformers and 246,250 kv-a. of 60 cycle units, making together the total of 1,418,175.

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected H.V.	Banks connected L.V.	Single phase except where otherwise stated No.	Make	Unit kv-a.
SYSTEM—25 Cycles										
5	15	C.W. Co.	3,500	1	52,500	Y	△	7	C.W. Co.	3,500
4	12	C.W. Co.	7,500	1	90,000	Y	△	....	.....	.....
3	9	C.G.E. Co.	3,500	1	31,500	Y	△	1	C.G.E. Co.	3,500
1	1	E.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	E.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	E.E. Co.	300	3	300	△	Y	....	.....	.....
1	3	C.W. Co.	5,000	1	15,000	Y	△	....	.....	.....
2	2	C.C.W. Co.	300	3	600	△	△	....	.....	.....
1	1	M.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	△	Y	....	.....	.....
1	3	C.C.W. Co.	150	1	450	△	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	△	△	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	1	P.E. Co.	300	1	300	△	Y	....	.....	.....
6	18	C.G.E. Co.	5,000	1	90,000	Y	△	....	.....	.....
2	6	C.G.E. Co.	5,000	1	30,000	Y	△	....	.....	.....
2	6	C.G.E. Co.	5,000	1	30,000	Y	△	....	.....	.....
1	3	C.W. Co.	300	1	900	△	Y	....	.....	.....
2	6	C.W. Co.	300	1	1,800	△	Y	....	.....	.....
1	3	C.W. Co.	300	1	900	△	Y	....	.....	.....
1	1	C.G.E. Co.	150	3	150	△	Y	....	.....	.....
1	3	C.W. Co.	300	1	900	△	Y	....	.....	.....
1	3	C.G.E. Co.	300	1	900	△	Y	....	.....	.....
2	6	C.G.E. Co.	5,000	1	30,000	Y	△	1	C.G.E. Co.	5,000
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.G.E. Co.	50	1	150	△	Y	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	Y	....	.....	.....
1	1	M.E. Co.	150	3	150	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	3	G.E. Co.	2,500	1	7,500	Y	△	1	C.G.E. Co.	2,500
{1	3	C.W. Co.	75	1	225	△	△	....	.....	.....
{1	3	C.C.W. Co.	75	1	225	△	△	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	△	....	.....	.....
2	2	P.E. Co.	300	3	600	△	Y	....	.....	.....
1	3	C.G.E. Co.	25	1	75	△	△	....	.....	.....
2	6	G.E. Co.	1,250	1	7,500	Y	△	1	G.E. Co.	1,250
1	3	P.E. Co.	75	1	225	△	Y	....	.....	.....

TABLE OF TRANSFORMING STATION

System number	Station: Name	Station: Date placed in operation	Station: Type of building	Circuits: High voltage: Volts	Circuits: High voltage: No.	Circuits: Low voltage: Volts	Circuits: Low voltage: No.
							NIAGARA
N 7	Kitchener trans sta	Sept. 1910	T.S. brick	110,000	2	13,200	8
N 735	Baden dist. sta	May 1912	special	13,200	1	4,000	2
N 734	Elmira dist. sta	Oct. 1913	D. brick	13,200	1	4,000	1
N 737	New Hamburg dist. sta	Feb. 1911	special	13,200	1	2,300	2
N 733	St. Jacobs dist. sta	Sept. 1917	P. outdoor	13,200	1	4,000	2
N 8	Stratford trans. sta	Nov. 1911	T.S. brick	110,000	2	26,400	6
N 834	Dublin dist. sta	Oct. 1917	P. outdoor	26,400	1	4,000	1
N 841	Harriston dist. sta	June 1916	H. brick	26,400	1	4,000	2
N 839	Listowel dist. sta	May 1916	special	26,400	1	4,000	1
N 838	Milverton dist. sta	May 1916	H. brick	26,400	1	4,000	1
N 840	Palmerston dist. sta	June 1916	H. brick	26,400	1	4,000	3
N 832	Tavistock dist. sta	Oct. 1916	special	26,400	1	575	1
				4,000	1	575	1
N 846	Walton dist. sta	July 1924	P. outdoor	26,400	1	4,000	3
N 9	St. Marys trans. sta	April 1911	T.S. brick	110,000	2	13,200	2
N 932	St. Marys Cement Co., dist. sta	Sept. 1912	special	13,200	1	575	1
						575	1
N 10	Woodstock trans. sta	Nov. 1911	T.S. brick	110,000	3	13,200	6
N1034	Beachville dist. sta	July 1912	D.L. brick	13,200	1	2,300	2
N1033	Embro dist. sta	Dec. 1914	E. brick	13,200	1	4,000	1
N1036	Norwich dist. sta	Mar. 1912	special	13,200	1	2,300	2
N 11	St. Thomas trans. sta	Feb. 1912	T.S. brick	110,000	4	13,200	8
N1138	Aylmer dist. sta	Feb. 1915	special	13,200	1	4,000	2
N1134	Dutton dist. sta	Aug. 1915	E. brick	13,200	1	4,000	1
N1133	London & Pt. Stanley Ry.	June 1915	in St.Thomas T.S.	13,200	3	920	3
N1137	Port Stanley dist. sta	Mar. 1912	B. brick	13,200	1	2,300	1
N11D31	St. Thomas rural dist. sta	July 1923	outdoor	13,200	1	4,000	1
N1135	West Lorne dist. sta	Dec. 1916	E. brick	13,200	1	4,000	2
N 12	Brant trans. sta	Jan. 1914	T.S. brick	110,000	4	26,400	6
		Sept. 1924	outdoor	.....	....	.....	....
N1240	Ayr dist. sta	Dec. 1914	H. brick	26,400	1	4,000	2
N1234	Burford dist. sta	May 1915	H. brick	26,400	1	4,000	1
N1241	Drumbo dist. sta	Dec. 1914	H. brick	26,400	1	4,000	3
N1247	Norfolk dist. sta	Jan. 1923	P. outdoor	26,400	1	4,000	1
N1233	St. George dist. sta	Sept. 1915	in Brant T.S.	4,000	1	230	1
N1235	Waterford dist. sta	May 1915	H. brick	26,400	1	4,000	2
N 13	Cooksville trans. sta	Nov. 1911	T.S. brick	110,000	3	13,200	8
N1331	Port Credit dist. sta	Aug. 1912	B. brick	13,200	1	4,000	2
N1339	Streetsville dist. sta	Nov. 1913	D. brick	13,200	2	2,300	2
N1340	Toronto Twp. dist. sta	Nov. 1911	in Cooksville T.S.	13,200	1	2,300	1
N 14	Kent trans. sta	Aug. 1914	T.S. brick	110,000	4	26,400	6
N1434	Blenheim dist. sta	Oct. 1915	H. brick	26,400	1	4,000	1
N1438	Bothwell dist. sta	Aug. 1915	H. brick	26,400	1	4,000	2
N1442	Brigden dist. sta	Dec. 1917	P. outdoor	26,400	1	575	1
N1440	Dresden dist. sta	Mar. 1915	H. brick	26,400	1	4,000	1

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.
SYSTEM—25 Cycles—Continued										
1	3	C.G.E. Co.	1,250	1	3,750	Y	△	4	C.G.E. Co.	5,000
1	3	C.W. Co.	2,500	1	7,500	Y	△	1	C.W. Co.	2,500
1	3	C.C.W. Co.	150	1	450	△	Y	....	.....	.....
1	3	C.G.E. Co.	150	1	450	△	Y	....	.....	.....
1	3	P.E. Co.	75	1	225	△	△	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	△	....	.....	.....
1	1	M.E. Co.	150	3	150	△	Y	....	.....	.....
2	6	C.W. Co.	1,250	1	7,500	Y	△	1	C.W. Co.	1,250
1	1	M.E. Co.	50	3	50	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.G.E. Co.	200	1	600	△	Y	....	.....	.....
1	3	C.G.E. Co.	150	1	450	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.C.W. Co.	75	1	225	△	△	....	.....	.....
1	3	F.T. Co.	15	1	45	Y	△	....	.....	.....
1	1	M.E. Co.	150	3	150	△	Y	....	.....	.....
1	3	G.E. Co.	750	1	2,250	Y	△	4	G.E. Co.	750
1	3	C.G.E. Co.	500	1	1,500	△	△	....	.....	.....
1	1	P.E. Co.	1,500	3	1,500	△	△	....	.....	.....
1	3	C.G.E. Co.	2,500	1	7,500	Y	△	2	C.G.E. Co.	1,250
1	3	P.E. Co.	150	1	450	△	△	....	.....	.....
1	1	P.E. Co.	50	3	50	△	Y	....	.....	.....
1	3	P.T. Co.	150	1	450	△	△	....	.....	.....
2	6	G.E. Co.	750	1	4,500	Y	△	1	G.E. Co.	750
1	3	P.E. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
3	9	C.W. Co.	185	1	1,665	△	△	....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	△	....	.....	.....
1	1	F.T. Co.	150	3	150	△	Y	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.W. Co.	2,500	1	7,500	Y	△	1	C. W. Co.	2,500
1	3	C.G.E. Co.	5,000	1	15,000	Y	△	1	C.G.E. Co.	5,000
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	1	C.C.W. Co.	300	3	300	△	Y	....	.....	.....
1	3	C.C.W. Co.	50	1	150	Y	△	....	.....	.....
1	3	G.E. Co.	50	1	150	Y	△	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	G.E. Co.	1,250	1	3,750	Y	△	1	G.E. Co.	1,250
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	△	Y	....	.....	.....
1	3	C.G.E. Co.	150	1	450	△	△	....	.....	.....
1	3	Siemens	50	1	150	△	△	....	.....	.....
2	6	C.G.E. Co.	2,500	1	15,000	Y	△	1	C.G.E. Co.	2,500
1	3	C.G.E. Co.	150	1	450	△	Y	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	1	P.E. Co.	75	3	75	△	△	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....

TABLE OF TRANSFORMING STATION

Station				Circuits			
				High voltage		Low voltage	
System number	Name	Date placed in operation	Type of building	Volts	No.	Volts	No.
							NIAGARA
N1455	Fletcher dist. sta	Dec. 1922	P. outdoor	26,400	1	4,000	2
N1445	Forest dist. sta	Feb. 1917	H. brick	26,400	1	4,000	2
N1441	Oil Springs dist. sta	Dec. 1917	P. outdoor	26,400	1	4,000	3
N1448	Perch dist. sta	Nov. 1922	P. outdoor	26,400	1	575	1
N1443	Petrolia dist. sta	April 1916	G. brick	26,400	2	4,000	5*b*
N1435	Ridgetown dist. sta	Dec. 1915	H. brick	26,400	1	4,000	3*a*
N1437	Thamesville dist. sta	Oct. 1915	H. brick	26,400	1	4,000	1
N1432	Tilbury dist. sta	April 1915	G. brick	26,400	1	4,000	2
		Nov. 1923	outdoor				
N1439	Wallaceburg dist. sta	Feb. 1915	G. brick	26,400	1	4,000	5
		June 1924					
N1446	Watford dist. sta	Sept. 1917	P. outdoor	26,400	2	4,000	2
N 15	Essex trans. sta	Aug. 1914	T. S. brick	110,000	2	26,400	8
N1542	Amherstburg dist. sta	Feb. 1919	special	26,400	2	4,000	3
N1538	Belle River dist sta	Dec. 1922	P. outdoor	26,400	1	4,000	2
N1533	Can. Salt Co., dist. sta	Nov. 1917	special	26,400	2	176	2
N1546	Cottam dist. sta	Oct. 1915	P. outdoor	26,400	1	115/230	1
N1547	Essex dist. sta	Oct. 1914	P. outdoor	26,400	1	2,300	1
N1543	Harrow dist. sta	Jan. 1914	P. outdoor	26,400	1	2,300	1
N1544	Kingsville dist. sta	Jan. 1914	special	26,400	2	4,000	3
N1545	Leamington dist. sta	Aug. 1915	special	26,400	1	4,000	3
J 98–1	Essex County Sys. res. equip						
N 16	York trans. sta	Oct. 1919	outdoor	110,000	1	13,200	1
N1631	Etobicoke dist. sta	Sept. 1918	special	13,200	2	2,300	6
						2,300	
						4,000	1
N1639	Etobicoke Twp. dist. sta	Feb. 1923	at York T.S.	13,200	1	4,000	1
N1634	Woodbridge dist. sta	Dec. 1914	E. brick	13,200	1	4,000	3
N 17	Hamilton trans. sta	Oct. 1922	outdoor	110,000	2	13,200	4
N17D31	Saltfleet dist. sta	Feb. 1922	P. outdoor	13,200	1	4,000	1
N 20	Queenston gen. sta	Jan. 1922	concrete special	110,000	6	12,000	
				13,200	1	2,300	
N98–1	Niagara System res. equip.						
N98–2	" " " "						
N98–3	" " " "						
N98–6	" " " "						
N98–8	" " " "						
N98–13	" " " "						

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected H.V.	Banks connected L.V.	Single phase except where otherwise stated No.	Make	Unit kv-a.
SYSTEM—25 Cycles—Continued										
1	1	M.E. Co.	150	3	150	△	Y	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	1	C.W. Co.	150	3	150	△	Y	....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	△	....	.....	.....
1	3	P.E. Co.	300	1	900	△	Y	....	.....	.....
1	3	P.E. Co.	150	1	450	△	Y	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	Y	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	P.E. Co.	150	1	450	△	Y	....	.....	.....
1	1	C.C.W. Co.	1,500	3	1,500	Y	Y	....	.....	.....
1	1	M.E. Co.	150	3	150	△	Y	....	.....	.....
2	6	C.G.E. Co.	5,000	1	30,000	Y	△	....	.....	.....
1	3	P.E. Co.	100	1	300	△	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	P.E. Co.	150	3	150	△	Y	....	.....	.....
2	6	M.E. Co.	750	1	4,500	△	6ϕ	....	.....	.....
1	1	M.E. Co.	25	1	25	.....	.....	....	.....	.....
1	1	P.E. Co.	150	3	150	△	△	....	.....	.....
1	1	M.E. Co.	75	3	75	△	△	....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	....	.....	.....
1	3	P.E. Co.	150	1	450	△	Y	....	.....	.....
.....	1	M.E. Co.	75	3	75	26400m / 13200△	4000Y / 2300△	....	.....	.....
1	3	C.G.E. Co.	5,000	1	15,000	Y	△	1	C.G.E. Co.	5,000
2	2	C.C.W. Co.	1,500	3	3,000	Y	△	....	.....	.....
1	1	C.W. Co.	1,500	3	1,500	Y	△	....	.....	.....
1	1	C.C.W. Co.	1,500	3	1,500	△	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	E.E. Co.	300	3	300	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	1	P.E. Co.	150	3	150	△	Y	....	.....	.....
2	6	C.W. Co.	5,000	1	30,000	Y	△	....	.....	.....
1	1	M.E. Co.	400	3	400	Y	Y	....	.....	.....
5	15	C.W. Co.	15,000	1	225,000	Y	△	....	.....	.....
1	3	C.W. Co.	18,330	1	54,990	Y	△	....	.....	.....
1	1	C.C.W. Co.	1,500	3	1,500	△	△	....	.....	.....
.....	4	C.W. Co.	750	1	3,000	63500m	13200m	....	.....	.....
.....	1	G.E. Co.	750	1	750	63500m	13200m	....	.....	.....
.....	4	G.E. Co.	750	1	3,000	63500m	13200m	....	.....	.....
.....	1	M.E. Co.	75	3	75	26400m / 13200△	4000Ym / 2300/575△	....	.....	.....
.....	1	M.E. Co.	750	3	750	26400Y / 13200m	4000Ym / 2300/575△	....	.....	.....
.....	1	C.C.W. Co.	1,500	3	1,500	26400Y / 13200m	4000Ym / 2300△	....	.....	.....

TABLE OF TRANSFORMING STATION

System number	Station Name	Date placed in operation	Type of building	Circuits High voltage Volts	High voltage No.	Low voltage Volts	Low voltage No
							NIAGARA
N98–14	Niagara System res. equip.						
N98–15	" " " "						
N98–20	" " " "						
N98–21	" " " "						
N98–24	" " " "						
N98–25	" " " "						
N98–26	" " " "						
N98–27	" " " "						
N98–28	" " " "						
N98–29	" " " "						
N98–30	" " " "						
N98–31	" " " "						
N98–32	" " " "						
N98–33	" " " "						
N98–36	" " " "						
N98–37	" " " "						
N98–38	" " " "						
N98–39	" " " "						

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected H.V.	Banks connected L.V.	Single phase except where otherwise stated No.	Make	Unit kv-a.
SYSTEM—25 Cycles—Continued										
.....	1	M.E. Co.	50	3	50	26400m / 13200△	4000Ym / 2300/575△	....	.....	.....
.....	2	C.W. Co.	1,250	1	2,500	63500m	26400m / 13200	....	.....	.....
.....	1	M.E. Co.	50	3	50	26400m / 13200△	4000Ym / 2300/575△	....	.....	.....
.....	1	M.E. Co.	300	3	300	26400m / 13200△	4000Ym / 2300/575△	....	.....	.....
	3	M.E. Co.	150	1	450	26400m / 13200	2300m / 575	....	.....	.....
.....	4	G.E. Co.	750	1	3,000	63500m	13200m	....	.....	.....
.....	7	C.G.E. Co.	2,850	1	19,950	63500m	26400m / 13200	....	.....	.....
.....	3	G.E. Co.	1,250	1	3,750	63500m	13200m	....	.....	.....
.....	3	P.E. Co.	150	1	450	13200m	2200m / 1100/550	....	.....	.....
.....	2	G.E. Co.	750	1	1,500	63500m	13200m	....	.....	.....
	1	C.G.E. Co.	1,250	1	1,250	63500m	13200m	....	.....	.....
.....	3	C.G.E. Co.	75	1	225	13200m	2300/575m	....	.....	.....
.....	1	C.C.W. Co.	300	3	300	13200△	4000Ym / 2300/575△	....	.....	.....
	1	P.E. Co.	300	3	300	13200△	4000Ym / 2300/575△	....	.....	.....
.....	3	C.G.E. Co.	20	1	60	13200m	2300/575m	....	.....	.....
.....	3	P.E. Co.	25	1	75	13200m	2300/575m	....	.....	.....
.....	3	C.W. Co.	1,250	1	3,750	63500m	26400m / 13200	....	.....	.....
.....	3	C.G.E. Co.	75	1	225	13200m / 6600	2300/575m	....	.....	.....
.....	1	M.E. Co.	25	1	25	26400m / 13200	230/115m	....	.....	.....
.....	1	M.E. Co.	75	3	75	26400△ / 13200m	4000Ym / 2300/575△	....	.....	.....
.....	3	C.G.E. Co.	300	1	900	23440m / 11720	4200m / 2100	....	.....	.....

TABLE OF TRANSFORMING STATION

System number	Name	Date placed in operation	Type of building	Circuits: High voltage Volts	High voltage No.	Low voltage Volts	Low voltage No.
	ONTARIO POWER COMPANY						
A 2	O.P. Co. trans. sta	1905	brick special	60,000	2	12,000	13
				30,000	2	.....	....
A245	Dain dist. sta	1917*b*	.....	12,000	2	110/220	....
A250	Empire Cotton dist. sta	1917*b*	.....	12,000	2	550	....
A 3	Port Colborne trans. sta	Sept. 1913*b*	special	30,000	2	12,000	4
A331	Port Colborne dist. sta	1917*b*	in Pt. Colborne T.S.	12,000	....	2,300	2
A332	Government Elev. dist. sta.	1908	.....	12,000	2	560	....
I 1	Thorold dist. sta	1918	brick special	12,000	1	2,300	1
		1924	.....	12,000	1	2,300	1
A98–1	O.P. Co. res. equipment	.....	.....	.....	....	.....	....
A98–2	" " " "	.....	.....	.....	....	.....	....
A98–3	" " " "	.....	.....	.....	....	.....	....
	TORONTO POWER COMPANY						
B 2	Niagara Falls trans. sta	*a*	brick special	90,000	2	12,000	5
				60,000	2	.....	....
B 3	Davenport trans. sta	*a*	brick special	90,000	2	12,000	29
B 332	Keele St. dist. sta	*a*	concrete special	12,000	1	.....	....
B 335	Can. Wire & Cable Co	*a*	.....	12,000	1	600	1
B 5	Thorold trans. sta	*a*	brick special	60,000	1	12,000	5
B 6	Welland trans sta	*a*	brick special	60,000	1	12,000	3
	GEORGIAN BAY SYSTEM—						
S 1	Midland dist. sta	Aug. 1917	brick special	22,000	3	2,300	4
S 2	Penetang dist. sta	Nov. 1911	brick special	22,000	1	2,300	4
S 4	Barrie dist. sta	Mar. 1913	brick special	22,000	1	2,300	8
S 5	Collingwood dist. sta	1913	brick special	22,000	4	2,300	2
S 6	Coldwater dist. sta	1913	G. brick	22,000	1	2,300	1
S 7	Elmvale dist. sta	May 1913	G. brick	22,000	1	2,300	1
S 10	Stayner dist. sta	Sept. 1913	G. brick	22,000	1	4,000	2
S 11	Midland (G.T.R. Tiffin) dist. sta	Sept. 1922	brick special	22,000	2	575	1
S 17	Pt. McNicoll dist. sta	Feb. 1921	P. outdoor	2,200	1	575	1
S 18	Waubaushene dist. sta	Nov. 1914	E. brick	22,000	1	2,300	1
S 19	Victoria Harbor dist. sta	July 1914	brick special	22,000	1	2,300	1
S 20	Big Chute gen. sta	July 1914	concrete special	22,000	3	2,200	0
S 21	C.P.R., Pt. McNicoll	July 1916	brick special	22,000	2	575	1
S 23	Phelpston dist. sta	Jan. 1924	P. outdoor	22,000	2	110/220	1
S 32	Alliston dist. sta	May 1918	H. brick	22,000	1	4,000	1
S 33	Beeton dist. sta	July 1918	P. outdoor	22,000	1	4,000	1
S 34	Tottenham dist. sta	Sept. 1918	P. outdoor	22,000	1	4,000	1
S 35	Cookstown dist. sta	April 1918	P. outdoor	22,000	1	4,000	1
S 36	Thornton dist. sta	Oct. 1918	P. outdoor	22,000	1	4,000	1
S 37	Bradford dist. sta	Sept. 1918	H. brick	22,000	1	575	1
			modified	4,000	1	575	1
S98–2	Severn div. res. equip	Mar. 1921	.....	.....	....	.....	....
S98–4	" " " "	Feb. 1922	.....	.....	....	.....	....
S98–5	" " " "	Mar. 1923	.....	.....	....	.....	....
S98–6	" " " "	July 1923	.....	.....	....	.....	....

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Tranformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected H.V.	Banks connected L.V.	Single phase except where otherwise stated No.	Make	Unit kv-a.
SYSTEM—25 Cycles										
4	12	W.E. & M. Co.	3,000	1	36,000	Y	△	....	.....	.....
2	6	C.W. Co.	3,000	1	18,000	Y	△	....	.....	.....
1	2	P.E. Co.	75	1	150	△	△	....	.....	.....
1	3	C.C.W. Co.	400	1	1,200	△	△	....	.....	.....
1	3	C.W. Co.	1,500	1	4,500	△	△	....	.....	.....
1	3	C.G.E. Co.	150	1	450	Y	△	3	P.T. Co.	25
	2	P.T. Co.	50	1	100	△	△	....	.....	.....
	1	C.C.W. Co.	60	1	60	△	△	....	.....	.....
1	3	P.E. Co.	300	1	900	△	△	....	.....	.....
1	3	C.C.W. Co.	667	1	2,000	△	△	....	.....	.....
1	3	C.G.E. Co.	250	1	750	△	△	....	.....	.....
.....	2	C.W. Co.	75	1	150	12000*m*	230*m*	....	.....	.....
.....	3	P.T. Co.	25	1	75	12000*m*	2200*m*	....	.....	.....
.....	3	C.W. Co.	175	1	425	12000*m*	2200*m*	....	.....	.....
SYSTEM—25 Cycles										
2	6	C.G.E. Co.	6,000	1	36,000	Y	△	....	.....	.....
3	9	C.G.E. Co.	2,670	1	24,030	△	△	....	.....	.....
2	6	C.G.E. Co.	5,500	1	33,000	Y	△	....	.....	.....
2	2	G.E. Co.	400	3	800	△	△	....	.....	.....
1	3	M.E. Co.	250	1	750	△	△	....	.....	.....
2	6	C.G.E. Co.	2,400	1	14,400	△	△	....	.....	.....
1	3	C.G.E. Co.	2,400	1	7,200	△	△	....	.....	.....
SEVERN DIVISION—60 Cycles										
1	3	M.E. Co.	300	1	900	△	△	....	.....	.....
1	3	M.E. Co.	300	1	900	△	△	....	.....	.....
1	2	P.E. Co.	350	1	700	T	+	....	.....	.....
1	2	C.G.E. Co.	350	1	700	T	+	....	.....	.....
1	3	C.G.E. Co.	400	1	1,200	△	△	....	.....	.....
1	3	C.W. Co.	40	1	120	△	△	....	.....	.....
1	3	C.W. Co.	75	1	225	△	△	....	.....	.....
1	3	C.W. Co.	100	1	300	△	Y	....	.....	.....
1	3	C.G.E. Co.	400	1	1,200	△	△	....	.....	.....
1	3	F.T. Co.	25	1	75	△	△	....	.....	.....
1	2	C.G.E. Co.	25	1	50	V	V	....	.....	.....
1	1	C.W. Co.	100	1	100	.....	.....	....	.....	.....
2	6	C.W. Co.	600	1	3,600	△	△	1	C.W. Co.	600
1	3	C.G.E. Co.	500	1	1,500	△	△	....	.....	.....
1	1	M.E. Co.	10	1	10	1	1	....	.....	.....
1	3	P.E. Co.	75	1	225	△	Y	....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	....	.....	.....
1	1	C.G.E. Co.	75	3	75	△	Y	....	.....	.....
1	1	M.E. Co.	25	3	25	△	Y	....	.....	.....
1	1	F.T. Co.	150	3	150	△	△	....	.....	.....
1	3	C.G.E. Co.	15	1	45	Y	△	....	.....	.....
.....	1	C.G.E. Co.	25	1	25	22000*m*	2300/575*m*	....	.....	.....
.....	1	C.G.E. Co.	50	3	50	22000△	2300/575 *m* △	....	.....	.....
.....	3	C.C.W. Co.	200	1	600	22000*m*	2200*m*	....	.....	.....
.....	1	C.G.E. Co.	25	1	25	22000*m*	2300/575*m*	....	.....	.....
	2	M.E. Co.	25	1	25	22000*m*	2300/575*m*	....	.....	.....

TABLE OF TRANSFORMING STATION

Station				Circuits			
				High voltage		Low voltage	
System number	Name	Date placed in operation	Type of building	Volts	No.	Volts	No.
GEORGIAN BAY SYSTEM							
E 1	Eugenia gen. sta.	Nov. 1915	brick special	22,000	6	4,000	2
E 2	Owen Sound dist. sta.	Nov. 1915	brick special	22,000	2	2,300	4
E 3	Chatsworth dist. sta.	Nov. 1915	H. brick	22,000	1	4,000	1
E 4	Chesley dist. sta.	June 1916	G. brick	22,000	1	4,000	1
E 5	Dundalk dist. sta.	Nov. 1915	H. brick	22,000	1	4,000	1
E 7	Durham dist. sta.	Nov. 1915	H. brick	20,000	1	4,000	2
E 8	Hanover dist. sta.	1918	G. brick modified	22,000	1	4,000 2,300	3 1
E 9	Mt. Forest dist. sta.	Nov. 1915	G. brick	22,000	1	4,000	1
E10	Shelburne dist. sta.	Sept. 1917	H. brick	22,000	1	4,000	2
E12	Orangeville dist. sta.	Feb. 1917	G. brick	22,000	1	4,000	2
E13	Grand Valley dist. sta.	Aug. 1917	H. brick mod.	22,000	1	4,000	2
E14	Meaford dist. sta.	Feb. 1924	P. outdoor	22,000	1	4,000	2
E15	Kilsyth dist. sta.	Jan. 1918	P. outdoor	22,000	1	4,000	1
E17	Elmwood dist. sta.	May 1918	P. outdoor	22,000	1	4,000	1
E18	Priceville dist. sta.	Mar. 1921	P. outdoor	22,000	2	2,200	1
E21	Teeswater dist. sta.	May 1921	H. brick	22,000	1	4,000	1
E22	Wingham dist. sta.	April 1921	G. brick	22,000	1	2,300	4
E24	Holyrood dist. sta.	April 1921	outdoor special	22,000	1	4,000	2
E25	Kincardine dist. sta.	May 1921	special brick	22,000	1	2,200	2
E26	Walkerton Quarry dist. sta.	Feb. 1921	frame	22,000	1	2,300	2
E29	Durham, Russell dist. sta.	May 1922	P. outdoor	22,000	2	575	1
E31	Mt. Forest freq. chg. sta.	Oct. 1923	sheet metal	26,400 22,000	1 1	2,300 2,300	1 1
E98–2	Eugenia div. res. equip.	Oct. 1924	.....	.....	....	.....	....
GEORGIAN BAY SYSTEM							
W 1	Wasdells Falls gen. sta.	Sept. 1914	concrete special	22,000	2	2,300	0
W 2	Beaverton dist. sta.	Sept. 1914	G. brick special	22,000	1	4,000	2
W 3	Cannington dist. sta.	Sept. 1914	G. brick	22,000	1	4,000	3
W 6	Kirkfield dist. sta.	April 1920	H. concrete	22,000 4,000	1 1	575 575	1 1
W 7	Greenbank dist. sta.	Sept. 1922	P. outdoor	22,000	1	4,000	1
W 9	Pinedale dist. sta.	Sept. 1923	P. outdoor	22,000	1	2,300	1
W98–1	Wasdells div. res. equip.	Aug. 1924	.....	.....	....	.....	....
MUSKOKA							
M 1	South Falls gen. sta.	Aug. 1916	brick special	22,000	1	6,600	1
M 2	Huntsville dist. sta.	Aug. 25, 1916	G. brick special	22,000	1	2,300	2
ST. LAWRENCE							
L 1	Cornwall trans. sta.	May 1919	brick	110,000	2	44,000	2
L 2	Prescott dist. sta.	Mar. 1914	G. outdoor	44,000	1	2,400	3
L 3	Brockville dist. sta.	April 1915	brick	44,000	1	2,400	3
L 4	Winchester dist. sta.	July 1914	G. brick	26,400	1	4,000	1
L 5	Chesterville dist. sta.	Aug. 1919	S. outdoor mod.	26,400	1	4,160	2

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected H.V.	Banks connected L.V.	Single phase except where otherwise stated No.	Make	Unit kv-a.
EUGENIA DIVISION—60 Cycles										
2	6	C.W. Co.	900	1	5,400	△	△	....	.....	.....
1	3	C.W. Co.	550	1	1,650	△	△	....	.....	.....
1	3	C.G.E. Co.	25	1	75	△	Y	....	.....	.....
1	3	M.E. Co.	150	1	450	△	Y	....	.....	.....
1	3	C.G.E. Co.	50	1	150	△	Y	....	.....	.....
1	3	C.G.E. Co.	50	1	150	△	Y	....	.....	.....
2	2	P.E. Co.	750	3	1,500	△	Y	....	.....	.....
1	1	P.E. Co.	750	3	750	△	△	....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	Y	....	.....	.....
1	3	W.E. & M.	100	1	300	△	Y	....	.....	.....
1	3	G.E. Co.	100	1	300	△	Y	....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	....	.....	.....
1	1	M.E. Co.	300	3	300	△	Y	....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	....	.....	.....
1	1	M.E. Co.	50	3	50	△	Y	....	.....	.....
1	2	G.E. Co.	10	1	20	V	V	....	.....	.....
1	3	G.E. Co.	50	1	150	△	Y	....	.....	.....
1	3	C.G.E. Co.	250	1	750	△	△	....	.....	.....
1	3	M.E. Co.	50	1	150	△	Y	....	.....	.....
1	3	C.W. Co.	125	1	375	△	△	....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	△	....	.....	.....
1	3	M.E. Co.	100	1	300	△	△	....	.....	.....
1	3	P.E. Co.	350	1	1,050	△	△	....	.....	.....
1	3	M.E. Co.	300	1	900	△	△	....	.....	.....
.....	1	C.G.E. Co.	75	3	75	22000 △	4000Y*m* 2300/575 △	....	.....	.....
WASDELLS DIVISION—60 Cycles										
2	6	C.W. Co.	150	1	900	△	△	1	C.W. Co.	150
1	3	C.W. Co.	100	1	300	△	Y	....	.....	.....
1	3	C.W. Co.	100	1	300	△	Y	....	.....	.....
1	3	P.E. Co.	75	1	225	△	△	....	.....	.....
1	3	M.E. Co.	10	1	30	Y	△	....	.....	.....
1	1	C.G.E. Co.	150	3	150	△	Y	....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	....	.....	.....
.....	3	G.E. Co.	100	1	300	22000*m*	2200*m*	....	.....	.....
SYSTEM—60 Cycles										
1	3	C.G.E. Co.	400	1	1,200	△	△	....	.....	.....
1	3	C.G.E. Co.	300	1	900	△	△	....	.....	.....
SYSTEM—60 Cycles										
1	3	C.G.E. Co.	5,000	1	15,000	Y	Y	1 4	C.G.E. Co. C.G.E. Co.	5,000 1,250
1	1	P.E. Co.	300	3	300	Y	△	....	.....	.....
2	2	C.G.E. Co.	750	3	1,500	Y	△	....	.....	.....
1	3	C.G.E. Co.	50	1	150	△	Y	....	.....	.....
1	1	C.G.E. Co.	300	3	300	△	Y	....	.....	.....

TABLE OF TRANSFORMING STATION

System number	Name	Date placed in operation	Type of building	Circuits: High voltage Volts	High voltage No.	Low voltage Volts	Low voltage No.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected H.V.	Banks connected L.V.	Single phase except where otherwise stated No.	Make	Unit kv-a.
SYSTEM—60 Cycles—Continued										
2	2	C.G.E. Co.	1,500	3	3,000	Y	△	....	.....	.....
1	1	M.E. Co.	50	1	50	.....	.....	....	.....	.....
1	1	P.E. Co.	150	3	150	Y	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	Y	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	Y	Y	....	.....	.....
1	1	P.E. Co.	300	3	300	Y	△	....	.....	.....
.....	1	C.G.E. Co.	750	3	750	44000Y / 25400△	4160Y*m* / 2400/600 △	....	.....	.....
.....	1	M.E. Co.	300	3	300	44000Y / 25400△	4160Y*m* / 2400/600 △	....	.....	.....
.....	3	C.G.E. Co.	150	1	450	26400*m* / 13200	2300*m* / 575	....	.....	.....
SYSTEM—60 Cycles										
3	3	P.E. Co.	750	3	2,250	△	Y	....	.....	.....
1	3	C.G.E. Co.	200	1	600	△	△	....	.....	.....
1	1	C.G.E. Co.	750	3	750	△	△	....	.....	.....
1	3	P.T. Co.	250	1	750	△	△	....	.....	.....
1	1	M.E. Co.	*d* 30	1	30	..	..	....	.....	.....
1	1	P.E. Co.	150	3	150	△	Y	....	.....	.....
SYSTEM—60 Cycles										
2	6	C.G.E. Co.	8,000	1	48,000	Y	△	1	C.G.E. Co.	8,000
1	3	C.G.E. Co.	5,000	1	15,000	Y	△	1	C.G.E. Co.	5,000
1	3	C.G.E. Co.	5,000	1	15,000	Y	△	....	.....	.....
SYSTEM—60 Cycles										
3	3	C.W. Co.	3,000	3	9,000	Y	△	....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	△	....	.....	.....
1	1	C.G.E. Co.	100	1	100	..	..	....	.....	.....
3	3	P.E. Co.	2,000	3	6,000	Y	△	....	.....	.....
1	1	C.G.E. Co.	300	3	300	Y	△	....	.....	.....
1	1	C.G.E. Co.	300	3	300	Y	△	....	.....	.....
2	2	C.G.E. Co.	4,500	3	9,000	Y	△	....	.....	.....
4	4	C.W. Co.	1,125	3	4,500	Y	Y	....	.....	.....
1	1	C.G.E. Co.	300	3	300	Y	△	....	.....	.....
1	1	C.G.E. Co.	750	3	750	Y	△	....	.....	.....
3	3	C.W. Co.	3,750	3	11,250	Y	△	....	.....	.....
1	1	C.G.E. Co.	750	3	750	Y	△	....	.....	.....
1	1	C.G.E. Co.	300	3	300	Y	△	....	.....	.....
1	3	C.G.E. Co.	200	1	600	△	△	....	.....	.....
2	2	C.G.E. Co.	1,875	3	3,750	Y	△	....	.....	.....
1	1	C.G.E. Co.	750	3	750	△	△	....	.....	.....
2	6	C.G.E. Co.	250	1	1,500	△	△	....	.....	.....
1	1	C.G.E. Co.	100	1	100	.....	.....	....	.....	.....

TABLE OF TRANSFORMING STATIO N

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
							CENTRAL ONTARIO AND TRENT
C23	Bowmanville dist. sta.....	1912*c*	brick special	44,000	1	4,160	4
C24	Oshawa dist. sta.....	1911*c*	brick special	44,000	1	4,160	7
C25	Millbrook dist. sta.....	1912*c*	brick	44,000	1	2,400	1
C26	Omemee dist. sta.....	Jan. 1918	outdoor	44,000	1	4,160	1
C29	Lindsay dist. sta.....	1912*c*	brick special	44,000	1	4,160	1
				11,000	2	4,160	1
C30	Fenelon Falls gen. sta.....	*c*	brick special	11,000	2	600	1
C31	Norwood dist. sta.....	Jan. 1921	S. outdoor mod.	44,000	1	4,160	2
C32	Deloro dist. sta.....	1909*c*	brick special	44,000	1	600	1
C33	Madoc dist. sta.....	1909*c*	brick special	44,000	1	4,160	3
C34	Sulphide dist. sta.....	1910*c*	brick special	44,000	1	4,160	3
C36	Pulp Mill dist. sta.....	1909*c*	concrete special	44,000	1	2,400	3
C37	Trenton dist. sta.....	.....	brick special	6,600	2	4,160	2
C38	Belleville dist. sta.....	1910*c*	brick special	44,000	1	2,400	6
C39	Belleville Cement Co. dist. sta.....	1911*c*	brick special	44,000	1	600	....
C40	Pt. Anne Quarries dist. sta...	1910*c*	brick special	44,000	1	600	4
C41	Lehigh Cement dist. sta.....	1911*c*	brick special	44,000	2	600	....
C42	Deseronto dist. sta.....	1911*c*	brick special	44,000	1	2,400	3
C43	Napanee dist. sta.....	1912*c*	brick special	44,000	1	4,160	3
C44	Kingston dist. sta.....	1917	brick special	44,000	1	2,400	5
C45	Wellington dist. sta.....	Mar. 1919	S. outdoor	44,000	1	4,160	2
C46	Picton dist. sta.....	Mar. 1919	S. outdoor	44,000	1	2,400	2
C47	Marmora dist. sta.....	Dec. 1920	outdoor	44,000	1	2,400	1
C49	Warkworth dist. sta.....	Sept. 1923	outdoor	44,000	1	2,400	1
							NIPISSING
Z 1	Nipissing gen. sta.....	1909*c*	brick special	22,000	1	2,200	1
Z 3	Callander dist. sta.....	1909*c*	sheet metal	22,000	1	2,200	1
Z 4	North Bay dist. sta.....	1909*c*	brick special	22,000	1	2,200	1
Z 6	Bingham Chute dist. sta....	Dec. 1923	brick special	22,000	1	2,200	1
Z98–2	Nipissing sys. res. equip.. ..	.....	.....	.....	....	.....	....

a. Operation taken over by the Hydro-Electric Power Commission November 1, 1922.
b. Operation taken over by the Hydro-Electric Power Commission August 1, 1917.
c. Operation taken over by the Hydro-Electric Power Commission March 1916.
d. Transformer good for 50 kv-a. at 44,000-volts.
m. Voltage rating.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.
SYSTEM—60 Cycles—Continued										
2	2	C.G.E. Co.	750	3	1,500	Y	Y	....	.....	.....
2	2	C.G.E. Co.	1,500	3	3,000	Y	Y	1	C.G.E. Co.	750
2	2	C.G.E. Co.	750	3	1,500	Y	Y	....	.....	.....
1	1	C.G.E. Co.	100	1	100	.....	.....	....	.....	.....
1	3	M.E. Co.	40	1	120	△	Y	....	.....	.....
2	2	C.G.E. Co.	750	3	1,500	Y	Y	....	.....	.....
1	1	C.G.E. Co.	750	3	750	Y	Y	....	.....	.....
2	6	C.G.E. Co.	135	1	810	△	△	1	C.G.E. Co.	135
								1	C.G.E. Co.	750
1	1	P.E. Co.	300	3	300	Y	Y	....	.....	.....
1	3	C.W. Co.	250	1	750	△	△	....	.....	.....
3	3	C.G.E. Co.	300	3	900	Y	Y	....	.....	.....
2	2	C.C.W. Co.	240	3	480	Y	Y	....	.....	.....
2	2	C.W. Co.	1,125	3	2,250	Y	Y	....	.....	.....
2	6	C.G.E. Co.	100	1	600	△	Y	....	.....	.....
1	1	C.G.E. Co.	750	3	750	△	Y	....	.....	.....
3	3	C.G.E. Co.	750	3	2,250	Y	△	1	C.G.E. Co.	750
1	1	C.G.E. Co.	750	3	750	Y	△	....	.....	.....
1	1	C.G.E. Co.	100	1	100	.....	.....	....	.....	.....
2	2	C.G.E. Co.	300	3	600	Y	△	....	.....	.....
5	5	C.G.E. Co.	750	3	3,750	Y	△	....	.....	.....
2	2	C.G.E. Co.	300	3	600	Y	△	....	.....	.....
2	2	C.G.E. Co.	300	3	600	Y	Y	....	.....	.....
3	3	C.G.E. Co.	750	3	2,250	Y	△	....	.....	.....
1	1	C.G.E. Co.	300	3	300	Y	Y	....	.....	.....
1	1	C.G.E. Co.	300	3	300	Y	△	....	.....	.....
1	1	M.E. Co.	50	1	50	.....	.....	....	.....	.....
1	1	M.E. Co.	50	1	50	.....	.....	....	.....	.....
SYSTEM—60 Cycles										
1	3	P.E. Co.	900	1	2,700	△	△	....	.....	.....
1	3	C.G.E.	50	1	150	△	△	....	.....	.....
1	3	C.W. Co.	450	1	1,350	△	△	....	.....	.....
1	3	C.W. Co.	300	1	900	△	△	....	.....	.....
.....	1	A.C.B.	50	1	50	22000*m*	2200*m*	....	.....	.....
	1	C.G.E. Co.	25	1	25	22000*m*	2200*m*	....	.....	.....

APPENDIX III

TRANSMISSION LINE RECORDS

Corrected to October 31, 1924

including

Summaries of data respecting mileage of transmission lines built or acquired by the Hydro-Electric Power Commission. The sizes, materials, lengths and weights of conductors, and other particulars of the 110,000-volt steel-tower transmission lines, the wood-pole transmission lines and the telephone lines. Also detailed descriptions of the individual lines classified under the various systems.

TRANSMISSION LINE RECORDS

The total mileage of lines built and acquired by the Commission up to October 31, 1924, for the various systems, excepting rural 4,000-volt districts, is indicated in the following table:

TOTAL MILEAGE OF TRANSMISSION LINES

System		Miles
Niagara system—110,000-volt steel-supported transmission lines (N)		532.81
Thunder Bay system—110,000-volt steel-supported transmission lines (P)		70.59
Niagara system—46,000-volt and less, steel and wood supported (see table following) (N)		1,199.92
Ontario Power Company (A)		90.69
Toronto Power Company (B)		246.73
Georgian Bay system (G)		615.39
Severn division (S)	178.54	
Eugenia division (E)	330.60	
Wasdells division (W)	106.25	
Muskoka system (M)		26.32
St. Lawrence system (L)		149.31
Rideau system (H)		81.62
Thunder Bay system—110,000-volt wood supported (P)		83.65
Central Ontario and Trent system (C)		494.32
Nipissing system (Z)		24.70
Total		3,616.05

NOTE: Of the above the Niagara system, the Ontario Power Company and the Toronto Power Company are operated at 25 cycles. The other systems are operated at 60 cycles.

STEEL-TOWER AND WOOD-POLE TRANSMISSION LINES
TOTAL MILEAGES AND WEIGHTS OF CONDUCTORS—ALL SYSTEMS

Type of construction	Miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924
110,000-volt steel-tower lines	2,951.61	270.39	370.47	8,698,400	971,877	486,547
High-tension telephone lines	2,046.64	.....	.....	395,150	.....	.....
Wood-pole lines built by Commission	8,224.20	185.55	96.60	7,161,971	204,607	149,668
Toronto Power Co	878.46	.....	.....	2,486,661	.....	.....
Ontario Power Co	495.45	.....	.....	928,151	.....	.....
Total	14,596.36	455.94	467.07	19,670,333	1,176,484	636,215

NOTE.—This table does not include rural power districts.

HIGH TENSION TELEPHONE LINE
TOTAL MILEAGE AND WEIGHT OF TELEPHONE LINES

Size and Material	Wire miles	Weight in pounds
13,100 c.m. copper	996.96	208,364
10,400 c.m. copper	701.14	116,389
8,230 c.m. copper	107.68	14,213
6,530 c.m. copper	32.18	3,378
16,509 c-c. steel	82.70	20,361
No. 12 B.W.G. galv. iron	3.98	656
25-pairs No. 19 paper insulated, lead-covered copper	105.00	28,828
50-pair No. 22 paper-insulated lead-covered, copper	17.00	2,961
Total	2,046.64	395,150

110,000-VOLT TRANSMISSION LINES

Lines completed and under construction to October 31, 1924. Completed 613.40 miles, under construction 119.62 miles. Total, 733.02 miles.

TOTAL MILEAGE OF 110,000-VOLT LINES AND NUMBER OF TOWERS

	To Oct. 31, 1923	Oct. 31, 1923 to Oct. 31, 1924	Total to Oct. 31, 1924
Total mileage completed	523.04	80.36	603.40
Total mileage under construction	.....	119.62	119.62
Total mileage of single-circuit lines completed	62.21	70.50	132.80
Total mileage of double-circuit lines completed	460.83	9.77	470.60
Total mileage of double-circuit lines under construction	.....	3.87	3.87
Total mileage of single-circuit lines under construction	.....	115.75	115.75
Number of towers erected	5,021	538	5,559
Number of towers under construction	.....	16	16

TOTAL WEIGHTS AND MILEAGE OF CONDUCTORS

Cable	MILES OF CONDUCTOR			WEIGHT IN POUNDS		
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924
A.C.S.R.*	2,003.37	58.62	370.47	5,881,064	241,271	486,547
Copper	948.24	211.77	.....	2,817,336	730,606	.....
Total	2,951.61	270.39	370.47	8,698,400	971,877	486,547

*Aluminum conductor, steel-reinforced.

110,000-VOLT STEEL-TOWER TRANSMISSION LINES—Continued

SIZE, MATERIAL, LENGTH AND WEIGHT OF POWER CONDUCTORS

Size and material	Miles of conductor			Weight in pounds			Miles of single-circuit lines			Miles of double-circuit lines			Total circuit miles single- and double-circuit lines completed Oct. 31, 1924
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	
605,000 c.m., a.c. s-r.	304.20	50.76	23.22	1,252,694	209,030	55,593	....	....	....	50.70	8.46	3.87	59.16
500,000 c.m., a.c. s-r.	236.52	7.86	....	970,205	32,241	4,879	....	....	....	39.42	1.31	....	40.73
336,400 c.m., a.c. s-r.	571.14	....	....	1,592,338	....	....	....	....	....	95.19	...	....	95.19
312,000 c.m., a.c. s-r.	583.08	....	....	1,507,261	....	....	23.90	....	....	85.23	...	....	109.13
266,800 c.m., a.c. s-r.	308.43	....	....	558,566	....	....	38.31	....	....	32.25	...	....	70.56
167,800 c.m., a.c. s-r.	....	....	347.25	....	....	426,075	....	....	115.75	...	...	115.75	.....
211,600 c.m., copper	331.38	211.77	....	1,137,627	730,606	....	....	70.59	....	55.23	...	....	125.82
167,800 c.m., copper	616.86	....	....	1,679,709	....	....	....	....	....	102.81	...	....	102.81
Total.....	2,951.61	270.39	370.47	8,698,400	971,877	486,547	62.21	70.59	115.75	460.83	9.77	119.62	603.40

NOTE.—a.c. s-r.—aluminum conductors, steel-reinforced. Weights include steel.

WOOD-POLE TRANSMISSION LINES

TOTAL MILEAGE OF WOOD-POLE LINES BUILT BY THE COMMISSION

In operation October 31, 1924

System		Miles
Niagara system		1,137.22
Ontario Power Company system		.....
Toronto Power Company system		.....
Georgian Bay system		615.39
Severn division	178.54	
Eugenia division	330.60	
Wasdells division	106.25	
Muskoka system		26.32
St. Lawrence system		149.31
Rideau system		81.62
Central Ontario and Trent system		153.20
		2,163.06
110,000-volt, wood-pole lines—Thunder Bay system		83.65
Total		2,246.71

WOOD-POLE LINES COMPLETED AND UNDER CONSTRUCTION

For Year Ended October 31, 1924

MILEAGES AT VARIOUS VOLTAGES

Voltages	Miles completed during year	Miles under construction at October 31, 1924	Total miles
110,000	8.63	.....	8.63
44,000	6.48	.....	6.48
38,000	.....	32.15	32.15
26,400	21.90	0.05	21.95
22,000	14.50	.....	14.50
13,200	6.28	.....	6.28
12,000	1.55	.....	1.55
Total	59.34	32.20*	91.54

*Lines in Rural power districts not included in the above.

MILEAGES FOR THE VARIOUS SYSTEMS

System		Miles
Niagara system		29.78
Ontario Power Company system		.....
Toronto Power Company system		.....
Georgian Bay system		14.50
Severn division	.....	
Eugenia division	14.50	
Wasdells division	.....	
Muskoka system		32.15
St. Lawrence system		.....
Rideau system		.....
Thunder Bay system		8.63
Central Ontario and Trent system		6.48
Total		91.54

Span miles: single circuit, 89.03, double circuit, 2.51, total, 91.54.

MATERIAL AND MILEAGE OF CONDUCTORS

	MILES
Power Conductors:	
Aluminum cable, steel-reinforced	73.56
Aluminum	2.45
Copper	5.08
Steel	9.45
Total	91.54
Ground Wires and Cables:	
1/4" steel cable	1.50
Total	1.50
Telephone Wire:	
3 x 12 B.W.G. galvanized steel	32.15
3 x 13 B.W.G. galvanized steel	8.63
26,250 c.m. aluminum cable, steel-reinforced	11.00
10,400 c.m. copper-clad steel	2.45
16,500 c.m. copper-clad steel	1.50
No. 9 B.W.G. galvanized iron	26.67
Total	82.40
Aluminum Conductor:	
211,600 c.m. aluminum cable, steel-reinforced	41.41
66,373 c.m. aluminum cable, steel-reinforced	23.23
105,534 c.m. aluminum cable, steel-reinforced	8.92
500,000 c.m. aluminum	2.45
Total	76.01
Copper Conductor:	
133,079 c.m. copper	5.70
115,000 c.m. copper	0.32
41,742 c.m. copper	0.06
Total	6.08
Steel Conductor:	
5/16" galv. steel	9.45
Total	9.45

WOOD-POLE TRANSMISSION AND TELEPHONE LINES

TOTAL MILEAGE OF LINES AND NUMBER OF POLES

Lines	Miles completed		
	To Oct. 31, 1923	Oct. 31, 1923 to Oct. 31, 1924	Totals to Oct. 31, 1924
Low-tension lines completed	2,198.95	59.34	2,258.29
Low-tension lines under construction	.....	32.20	32.20
Single-circuit lines completed	1,709.88	56.83	1,766.71
Double-circuit lines completed	462.86	2.51	465.37
Three-circuit lines completed	5.74	....	5.74
Four-circuit	20.47	....	20.47
Single-circuit telephone lines completed	1,607.26	50.25	1,657.51
Double-circuit telephone lines completed	68.20	....	68.20
Three-circuit telephone lines completed	0.76	....	0.76
Telephone lines under construction	.....	32.20	32.20
Poles and Towers			
Number of poles erected	81,446	1,945	83,391
Number of towers erected	428	....	428
Number of poles under construction	.....	432	432

TOTAL MILEAGE AND WEIGHT OF CABLE AND WIRE

Cable and wire	Miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924
Aluminum: Transmission	3,512.67	14.70	.....	2,558,513	36,456	.....
Steel-reinforced aluminum: Transmission	2,574.09	124.08	96.60	2,044,792	98,405	149,668
Steel-reinforced aluminum: Telephone	499.07	22.00	.....	94,943	4,224	.....
Copper wire: Transmission	1,341.99	18.42	.....	1,819,915	39,128	.....
Copper wire: Telephone	137.16	7.90	0.10	22,741	.....	15
Copper-clad steel: Telephone	1,244.76	7.90	0.10	210,182	1,489	.....
Galv. iron wire: Transmission	167.28	.....	.....	95,852	.....	.....
Galv. iron wire: Telephone	1,402.04	53.34	.....	441,604	16,268	.....
Galv. steel cable: Transmission	628.17	28.35	.....	642,899	30,618	.....
Galv. steel cable: Telephone	348.58	17.26	64.30	142,587	6,472	31,828
Total	11,855.81	286.05	161.00	8,074,028	233,060	181,511

NOTE: This table does not include the 110,000-volt, steel-tower and telephone lines of the Niagara or Thunder Bay systems.

WOOD-POLE TRANSMISSION LINES—Continued

MILEAGE TABULATED ACCORDING TO VOLTAGE AND NUMBER OF CIRCUITS

Voltage	Single-circuit totals			Double-circuit totals			Three-circuit totals			Four-circuit totals			1, 2, 3, and 4-circuit totals			
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1924
110,000	75.61	8.63	...	...	...	...	...	...	...	...	...	...	75.61	8.63	...	84.24
46,000 44,000 40,000 38,000	295.05	6.48	32.15	5.63	...	...	...	...	...	15.53	...	...	316.22	6.48	32.15	322.70
30,000	....	...	...	2.00	...	...	...	...	...	...	...	...	2.00	...	...	2.00
26,400	337.95	19.45	0.05	151.05	2.45	...	1.48	...	...	1.10	...	.....	491.58	21.90	0.05	513.48
22,000	259.07	14.50	...	189.26	...	...	0.76	...	...	...	...	...	449.09	14.50	...	463.59
13,200	275.55	6.22	...	109.55	0.05	...	3.50	...	...	3.84	...	...	392.44	6.28	...	398.72
12,000	44.03	1.55	...	5.37	...	...	...	...	...	...	...	...	49.40	1.55	...	50.95
6,600	16.28	...	...	...	...	...	...	...	...	...	...	...	16.28	...	...	16.28
4,000	367.16	...	...	...	...	...	...	...	...	...	...	...	367.16	...	...	367.16
2,300	26.41	...	...	...	...	...	...	...	...	...	...	...	26.41	...	...	26.41
2,200	12.76	...	...	...	...	...	...	...	...	...	...	...	12.76	...	...	12.76
Total....	1,709.88	56.83	32.20	462.86	2.51	...	5.74	...	...	20.47	...	...	2,198.95	59.34	32.20	2,258.29

NOTE.—This sheet is based on route miles.

WOOD-POLE

GAUGE, LENGTH AND WEIGHT

Size and material of conductor	Wire miles of conductor			Weight in pounds			Miles Single-circuit lines		
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, '24	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, '24	Under construction Oct. 31, 1924
66,400 c.m., alum....	461.85	.....	.....	151,949	.....	.....	.....	.....	.....
105,534 c.m., alum...	543.21	.....	.....	284,642	.....	.....	110.49	.....	.....
13,399 c.m., alum....	116.58	.....	.....	76,360	.....	.....	13.48	.....	.....
167,805 c.m., alum...	2,155.95	.....	.....	1,798,062	.....	.....	276.31	.....	.....
173,000 c.m., alum...	6.30	.....	.....	5,632	.....	.....	.....	.....	.....
211,600 c.m., alum...	215.40	.....	.....	226,170	.....	.....	12.00	.....	.....
345,000 c.m., alum...	9.18	.....	.....	15,698	.....	.....	.....	.....	.....
500,000 c.m., alum...	.....	14.70	.....	.....	36,456	.....	.....	.....	.....
26,250 c.m., a.c. s-r.	9.69	.....	.....	1,860	.....	.....	3.23	.....	.....
66,400 c.m., a.c. s-r.	1,202.58	69.09	0.60	586,858	33,715	292	361.20	23.03	0.20
105,534 c.m., a.c. s-r.	482.49	26.76	.....	369,587	20,765	.....	153.03	8.92	.....
41,742 c.m., a.c. s-r.	32.10	.....	.....	9,822	.....	.....	10.70	.....	.....
105,530 c.m., a.c. s-r.	6.00	.....	.....	4,656	.....	.....	.....	.....	.....
125,000 c.m., a.c. s-r.	233.34	.....	.....	214,673	.....	.....	77.78	.....	.....
133,079 c.m., a.c. s-r.	106.35	.....	.....	103,798	.....	.....	21.73	.....	.....
167,805 c.m., a.c. s-r.	129.15	.....	.....	158,467	.....	.....	31.39	.....	.....
211,600 c.m., a.c. s-r.	359.70	28.23	96.00	559,692	43,925	149,376	119.14	9.41	32.00
336,400 c.m., a.c. s-r.	4.98	.....	.....	13,884	.....	.....	1.66	.....	.....
366,000 c.m., a.c. s-r.	7.71	.....	.....	21,495	.....	.....	2.57	.....	.....
26,250 c.m. copper..	525.28	.....	.....	222,063	.....	.....	179.48	.....	.....
41,742 c.m. copper..	190.02	0.36	.....	129,214	244	.....	60.92	.....	.....
52,634 c.m. copper..	6.48	.....	.....	5,560	.....	.....	.....	.....	.....
66,373 c.m. copper..	74.52	.....	.....	80,631	.....	.....	18.04	.....	.....
83,694 c.m. copper..	9.00	.....	.....	12,258	.....	.....	3.00	.....	.....
115,000 c.m. copper..	.....	0.96	.....	.....	1,795	.....	.....	0.32	.....
350,000 c.m. copper..	0.39	.....	.....	2,214	.....	.....	0.13	.....	.....
105,534 c.m. copper..	217.53	.....	.....	374,152	.....	.....	50.71	.....	.....
133,079 c.m. copper..	98.67	17.10	.....	214,051	37,039	.....	32.89	5.70	.....
211,600 c.m. copper..	226.68	.....	.....	782,046	.....	.....	.....	.....	.....
3 x 13 B. & S. G. galv. steel.....	10.60	.....	.....	3,975	.....	.....	10.60	.....	.....
4 x 12 B. & S. G. galv. steel.....	7.12	.....	.....	4,699	.....	.....	.....	.....	.....
3 x 12 B. & S. G. galv. steel.....	45.24	.....	.....	22,394	.....	.....	12.13	.....	.....
1/4" galv. steel.....	1,450.30	1.50	.....	1,000,707	1,035	.....	65.43	1.50	.....
9/32" galv. steel.....	404.87	.....	.....	344,139	.....	.....	28.47	.....	.....
5/16" galv. steel.....	497.44	28.35	.....	537,235	30,618	.....	176.88	9.45	.....
7/16" galv. steel.....	31.50	.....	.....	65,520	.....	.....	.....	.....	.....
16,509 c.m. c-c. steel.	0.89	.....	.....	218	.....	.....	.....	.....	.....
No. 9 B.W.G. iron...	.....	.....	.....	.....	.....	.....	.....	.....	.....
No. 10 B.W.G. iron..	5.53	.....	.....	1,382	.....	.....	.....	.....	.....
No. 6 B.W.G. iron...	298.27	.....	.....	170,909	.....	.....	55.76	.....	.....
Total.....	10,182.89	187.05	96.60	8,576,672	205,642	149,668	1,889.15	58.33	32.20

NOTE.—a.c. s-r.—Aluminum cable, steel-reinforced; c-c steel—copper-clad steel.

TRANSMISSION LINES—Continued

OF CONDUCTORS, INCLUDING GROUND CABLES

Miles Double-circuit lines			Miles Three-circuit lines			Miles Four-circuit lines			Total circuit miles of single, double, three and four circuit lines completed to Oct. 31, 1924
Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under Construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	
30.38	.....	.....	2.19	.....	.....	.....	.....	.....	32.57
34.81	.....	.....	0.08	.....	.....	0.18	.....	.....	145.56
12.69	.....	.....	.....	.....	.....	.....	.....	.....	26.17
218.97	.....	.....	.....	.....	.....	1.10	.....	.....	496.38
1.05	.....	.....	.....	.....	.....	.....	.....	.....	1.05
29.90	.....	.....	.....	.....	.....	.....	.....	.....	41.90
1.53	.....	.....	.....	.....	.....	.....	.....	.....	1.53
.....	2.45	.....	.....	.....	.....	.....	.....	.....	2.45
.....	.....	.....	.....	.....	.....	.....	.....	.....	3.23
19.83	.....	.....	.....	.....	.....	.....	.....	.....	404.06
3.90	.....	.....	.....	.....	.....	.....	.....	.....	165.85
.....	.....	.....	.....	.....	.....	.....	.....	.....	10.70
1.00	.....	.....	.....	.....	.....	.....	.....	.....	1.00
.....	.....	.....	.....	.....	.....	.....	.....	.....	77.78
6.86	.....	.....	.....	.....	.....	.....	.....	.....	28.59
5.83	.....	.....	.....	.....	.....	.....	.....	.....	37.22
0.38	.....	.....	.....	.....	.....	.....	.....	.....	128.93
.....	.....	.....	.....	.....	.....	.....	.....	.....	1.66
.....	.....	.....	.....	.....	.....	.....	.....	.....	2.57
.....	.....	.....	.....	.....	.....	.....	.....	.....	179.48
1.21	0.06	.....	.....	.....	.....	.....	.....	.....	62.19
1.03	.....	.....	.....	.....	.....	.....	.....	.....	1.08
3.40	.....	.....	.....	.....	.....	.....	.....	.....	21.44
.....	.....	.....	.....	.....	.....	.....	.....	.....	3.00
.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32
.....	.....	.....	.....	.....	.....	.....	.....	.....	0.13
10.90	.....	.....	.....	.....	.....	.....	.....	.....	61.61
.....	.....	.....	.....	.....	.....	.....	.....	.....	38.59
1.02	.....	.....	.....	.....	.....	18.38	.....	.....	19.40
.....	.....	.....	.....	.....	.....	.....	.....	.....	10.60
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	12.13
.....	.....	.....	.....	.....	.....	.....	.....	.....	66.93
.....	.....	.....	.....	.....	.....	.....	.....	.....	28.47
3.56	.....	.....	.....	.....	.....	.....	.....	.....	189.89
5.25	.....	.....	.....	.....	.....	.....	.....	.....	5.25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	55.76
393.55	2.51	.....	2.27	.....	.....	19.66	.....	.....	2,365.47

NOTE.—This sheet is based on route and wire miles.

TELEPHONE LINES

MILEAGE AND SIZES OF WIRE USED ON TELEPHONE LINES

For Year Ended October 31, 1924

Section No.	Miles	Gauge and material
Lines completed		
C 69 x 2001	2.08	26,250 c.m. a.c. s-r.
N 266 x 36	1.50	16,509 c.m. c-c. steel.
N 481 x 51	1.58	No. 9 B.W.G. galvanized iron.
N 865 x 46	9.45	No. 9 B.W.G. galvanized iron.
N 1563 x 39	1.08	No. 9 B.W.G. galvanized iron.
N 15 x 1502	2.45	10,400 c.m. c-c. steel
N 1577 x 47	8.92	26,250 c.m. a.c. s-r.
N 1671 x 11	0.06	No. 9 B.W.G. galvanized iron.
E 64 x 14	14.50	No. 9 B.W.G. galvanized iron.
P 59 x 8	5.70	3 x 13″ steel.
P 57 x 56	2.93	3 x 13″ steel.
Total...	50.25	
Lines under construction October 31, 1924		
N 1501 x 20	0.05	10,400 c.m. c-c. steel.
G 4 x 6	32.00	3 x 12″ steel.
M 54 x 4	0.15	3 x 13″ steel.
Total.....	32.20	

TELEPHONE LINES

ERECTED ON WOOD POLE LINES CARRYING POWER CONDUCTORS

GAUGE, LENGTH AND WEIGHT OF ALUMINUM, COPPER-CLAD STEEL AND GALVANIZED IRON WIRE

Size and material of wire	Miles of wire				Weight in pounds				Single-circuit mileage			Double-circuit mileage			Three-circuit mileage			1-2-& 3-circuit totals
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1924
16,509 c.m., c-c. steel	203.18	13.00	.....	206.18	49,779	735	.....	50,514	101.59	1.50	.....	.....	.....	.....	.....	.....	.....	103.09
10,400 c.m., c-c. steel	1,041.58	14.90	0.10	1,046.48	160,403	754	15	161,157	465.47	2.45	0.05	.....	.....	.....	0.76	.....	.....	468.68
10,400 c.m., copper	137.16	.....	.....	137.16	22,741	.....	.....	22,741	68.58	.....	.....	.....	.....	.....	.....	.....	.....	68.58
No. 8 B.W.G. galv. iron	5.70	.....	.....	5.70	2,155	.....	.....	2,155	2.85	.....	.....	.....	.....	.....	.....	.....	.....	2.85
No. 9 B.W.G. galv. iron	1,327.39	53.34	.....	1,380.73	410,765	16,268	.....	427,033	650.79	26.67	.....	.....	.....	.....	.....	.....	.....	677.46
No. 10 B.W.G. galv. iron	82.00	.....	.....	82.00	2,500	.....	.....	20,500	41.00	.....	.....	.....	.....	.....	.....	.....	.....	41.00
No. 12 B.W.G. galv. iron	49.60	.....	.....	49.60	8,184	.....	.....	8,184	24.80	.....	.....	.....	.....	.....	.....	.....	.....	24.80
No. 3x12 B.&S.G. galv. stl.	98.92	.....	64.30	98.92	48,965	.....	31,828	48,965	49.46	.....	32.15	.....	.....	.....	.....	.....	.....	49.46
No. 3x13 B.&S.G. galv. stl.	249.66	117.26	.....	266.92	93,622	6,472	.....	100,094	124.83	8.63	.....	.....	.....	.....	.....	.....	.....	133.46
26,250 c.m., a.c. s-r	436.42	22.00	.....	458.42	94,943	4,224	.....	99,167	79.89	11.00	.....	68.20	.....	.....	.....	.....	.....	159.09
Total	3,631.61	100.50	64.40	3,732.11	912,057	28,453	31,843	940,510	1,609.26	50.25	32.20	68.20	.....	.....	0.76	.....	.....	1,728.47

NOTE.—For telephone lines generally on wood poles and serving 110,000-volt power lines see separate table.

ONTARIO POWER COMPANY

TABULATION OF TRANSMISSION AND TELEPHONE LINES

Total mileage of Ontario Power Company's lines	90.69
Total mileage of steel-tower lines	12.02
Total number of steel towers erected	145
Total number of poles erected	3,580
Total mileage of single-circuit lines	16.23
Total mileage of double-circuit lines	74.46

SIZE, MATERIAL, LENGTH AND WEIGHT OF CONDUCTOR

Size and material	Span miles	Wire miles	Weight in pounds
Aluminum conductor:			
173,000 c.m	9.56	53.13	47,498
211,950 c.m	6.50	39.00	40,950
345,000 c.m	40.75	244.50	418,095
500,000 c.m	13.98	83.88	208,022
820,000 c.m	12.02	36.06	146,404
Total	82.81	456.57	860,969
Steel-reinforced aluminum:			
336,400 c.m	1.23	7.38	20,575
Total	1.23	7.38	20,575
Copper conductor:			
105,534 c.m. copper	0.36	2.16	3,715
133,079 c.m. copper	2.40	14.40	31,234
52,634 c.m. copper	3.44	12.24	10,502
26,250 c.m. copper	0.45	2.70	1,156
Total	6.65	31.50	46,607
Telephone line—galvanized iron	58.25	116.50	19,222
Telephone line—copper	11.51	23.02	2,417
Total	69.76	139.52	21,639

TOTAL MILEAGE AND WEIGHT OF CABLE

Cable	Miles of cable	Weight in pounds
Aluminum	456.57	860,969
Aluminum, steel reinforced	7.38	20,575
Copper	31.50	46,607
Total	495.45	928,151

ONTARIO POWER COMPANY LINES—Continued

TOTAL MILEAGE AND WEIGHT OF TELEPHONE WIRE

Wire	Miles of wire	Weight in pounds
Galvanized iron	116.50	19,222
Copper	23.02	2,417
Total	139.52	21,639

MILEAGE OF LINES TABULATED ACCORDING TO VOLTAGE AND NUMBER OF CIRCUITS

Voltage	Single-circuit lines total miles	Double-circuit lines total miles	Combined single- and double-circuit lines total miles
60,000	12.02	.....	12.02
30,000	.....	21.74	21.74
12,000	4.21	52.72	56.93
Total	16.23	74.46	90.69

SIZE, LENGTH AND WEIGHT OF CONDUCTORS IN TRANSMISSION LINES

Size and material	Miles of conductor	Weight in pounds	Miles of single-circuit lines	Miles of double-circuit lines	Miles of single and double-circuit lines
173,000 c.m. aluminum	53.13	47,498	1.41	8.15	9.56
211,950 c.m. aluminum	39.00	40,950	.....	6.50	6.50
345,000 c.m. aluminum	244.50	418,095	.....	40.75	40.75
500,000 c.m. aluminum	83.88	208,022	.....	13.98	13.98
820,000 c.m. aluminum	36.06	146,404	12.02	.....	12.02
336,400 c.m. a.c. s-r	7.38	20,575	.....	1.23	1.23
105,534 c.m. copper	2.16	3,715	.....	0.36	0.36
133,079 c.m. copper	14.40	31,234	.....	2.40	2.40
52,634 c.m. copper	12.24	10,502	2.80	0.64	3.44
26,250 c.m. copper	2.70	1,156	.....	0.45	0.45
Total	495.45	928,151	16.23	74.46	90.69

SIZE, LENGTH AND WEIGHT OF TELEPHONE LINES

Size and material	Wire miles	Weight in pounds	Single-circuit lines total miles
No. 12 B.W.G. galvanized iron wire	116.50	19,222	58.25
6,529 c.m. copper wire	23.02	2,417	11.51
Total	139.52	21,639	69.76

TORONTO POWER COMPANY

TABULATION OF TRANSMISSION AND TELEPHONE LINES

Total mileage of Toronto Power Company's transmission lines	191.65
Total number of poles erected	4,034
Total number of steel towers erected	2,067
Total mileage of single-circuit lines	80.48
Total mileage of double-circuit lines	111.17
Total mileage of single-circuit telephone lines	376.56

SIZE, MATERIAL, LENGTH AND WEIGHT OF CONDUCTORS

Size and material	Route miles	Wire miles	Weight in pounds
Copper conductor:			
190,000 c.m.	220.53	661.59	2,095,727
133,000 c.m.	22.31	66.93	145,238
115,000 c.m.	35.35	106.05	198,207
66,370 c.m.	14.63	43.89	47,489
Total	292.82	778.46	2,486,661
Telephone line—copper	183.36	366.72	60,875
Telephone line—copper-clad steel	4.92	9.84	3,862
Total	188.28	376.56	64,737

TOTAL MILEAGE AND WEIGHT OF TRANSMISSION CABLE

	Miles of cable	Weight in pounds
	878.46	2,486,661
Total	878.46	2,486,661

TOTAL MILEAGE AND WEIGHT OF TELEPHONE WIRE

	Miles of wire	Weight in pounds
	376.56	64,737
Total	376.56	64,737

TORONTO POWER COMPANY LINES—Continued

MILEAGE OF LINES TABULATED ACCORDING TO VOLTAGE AND NUMBER OF CIRCUITS

Voltage	Single-circuit total miles	Double-circuit total miles	Combined single- and double-circuit total miles
90,000 volts	.....	84.00	84.00
60,000 volts	12.23	9.00	21.23
12,000 volts	68.25	18.17	86.42
Total	80.48	111.17	191.65

SIZE, LENGTH AND WEIGHT OF CONDUCTORS IN TRANSMISSION LINES

Size and material	Miles of conductor	Weight in pounds	Miles of single-circuit lines	Miles of double-circuit lines	Miles of single and double-circuit lines
190,000 c.m. copper	661.59	2,095,727	22.29	104.12	126.41
115,000 c.m. copper	106.05	198,207	21.25	7.05	28.30
133,000 c.m. copper	66.93	145,238	22.31	.....	22.31
66,400 c.m. copper	43.89	47,489	14.63	.....	14.63
Total	878.46	2,486,661	80.48	111.17	191.65

SIZE, LENGTH AND WEIGHT OF TELEPHONE LINES

Size and material	Wire miles	Weight in pounds	Single-circuit total
66,373 c.m. copper	366.72	60,875	183.36
4,110 c.m. copper-clad steel	3.84	235	1.92
4,170 c.m. copper-clad steel	6.00	3,627	3.00
Total	376.56	64,737	188.28

DESCRIPTION

NIAGARA SYSTEM—110,000-VOLT,

New section number	Old section number	From	To	Aver. span feet	Miles	No. of towers
N1 x 54*a*	A	Niagara trans. sta.	Allenburg jct. tower No. A66	550	6.07	66
N54 x 2*a*	A	Allenburg jct. tower No. A66	Dundas trans. sta.	550	45.36	504
N 1 x 2	AA	Niagara trans. sta.	Dundas trans. sta.	630	50.00	451
N 2 x 13	Pt. B1 & B2	Dundas trans. sta.	Cooksville trans. sta.	550	27.20	295
N13 x 16	Pt. B1 & B3	Cooksville trans. sta.	York trans. sta.	550	6.73	74
N16 x 3*b*	Pt. B1 & B4	York trans. sta.	Toronto trans. sta.	550	5.10	62
N 2 x 52*e*	BB	Dundas trans. sta.	Nelson jct. tower No. BB64	630	6.75	64
N52 x 13*e*	BB	Nelson jct. tower No. BB64	Cooksville trans. sta.	630	20.47	177
N13 x 16*e*	BB	Cooksville trans. sta.	York trans. sta.	630	6.72	59
N 2 x 12	C	Dundas trans. sta.	Brant trans. sta.	550	22.65	251
N12 x 10	D	Brant trans. sta.	Woodstock trans. sta.	550	21.83	231
N10 x 4	E	Woodstock trans. sta.	London trans. sta.	550	25.45	278
N 2 x 5	F	Dundas trans. sta.	Guelph trans. sta.	550	25.26	268
N 5 x 6	P-1	Guelph trans. sta.	Preston trans. sta.	550	10.73	115
N 6 x 7	P-2	Preston trans. sta.	Kitchener trans. sta.	550	8.14	91
N 7 x 8*c*	H	Kitchener trans. sta.	Stratford trans. sta.	550	25.09	267
N 8 x 9*d*	I	Stratford trans. sta.	St. Mary's trans. sta.	550	13.53	147
N 9 x 4*d*	J	St. Mary's trans. sta.	London trans. sta.	550	23.59	250
N 4 x 11	K	London trans sta.	St. Thomas trans. sta.	550	13.38	140
N11 x 14	L	St. Thomas trans. sta	Kent trans. sta.	660	58.04	486
N14 x 15	M	Kent trans. sta.	Essex trans. sta.	660	44.77	374
N21 x 50	..	Queenston trans. sta.	Structure at forebay	.....	0.04	structure
N50 x 51	..	Structure at forebay	Niagara trans. sta.	550	5.48	58
N50 x 53	..	Structure at forebay	Saltfleet jct. tower No. 241	880	37.69	241
N53 x 17	..	Saltfleet jct. tower No. 241	Hamilton trans. sta.	750	1.92	14
N50 x 54	..	Structure at forebay	Allenburg jct. tower No. A66	880	9.16	58
N53 x 52	..	Saltfleet jct. tower No. 241	Nelson jct. tower No. BB64	880	8.46	51
N16 x 66	..	York trans. sta.	Islington jct. tower No. 15	550	1.31	15
			Total mileage.....	.....	530.90	5,087

Lines under

N16 x 3	..	York trans. sta.	Humber river....	880	2.25	16
N11 x 18*f*	..	St. Thomas trans. sta.	St. Clair trans. sta.	500	115.75	.....

a Section "A" has 50 miles of 312,000-c.m. steel reinforced aluminum conductors and 1.43
b Section "N16 x 3" has 1.30 miles of 312,000 c.m. steel-reinforced aluminum conductor and
c Section "N7 x 8" has 23.90 miles of 312,000 c.m. steel-reinforced aluminum conductor and
d Section "N8 x 9" and "N9 x 4" single-circuit towers only. All other sections double-
e Sections "N2 x 52", "N52 x 13" and "N13 x 16" first circuit placed in operation July 9, Sections "N66 x 82", "N82 x 32" and "N32 x 31" re-insulated only.
For inter-connected lines at 110,000 volts see Toronto Power Company's lines symbol "B." N66 = B66.
f Wood Pole Line. a.c.s-r. = Aluminum cable steel-reinforced.

OF LINES
25-CYCLE, TRANSMISSION LINES

No. of circuits	Size and material of power cable*	Size and material of ground cable*	Date placed in operation	Size and material of original conductors*	Date of last stringing
2	312,000 c.m. a.c.s-r.	5/16" steel	Oct., 1910	4/0 aluminum	Dec., 1918
2	312,000 c.m. a.c.s-r.	5/16" steel	Oct., 1910	4/0 aluminum	Dec., 1918
2	211,600 c.m. copper	5/16" steel	Feb., 1915	211,600 c.m. copper	.....
2	312,000 c.m. a.c.s-r.	5/16" steel	Mar., 1911	3/0 aluminum	Oct., 1917
2	312,000 c.m. a.c.s-r.	5/16" steel	Mar., 1911	3/0 aluminum	Oct., 1917
2	312,000 c.m. a.c.s-r.	5/16" steel	Mar., 1911	3/0 aluminum	Oct., 1917
2	500,000 c.m. a.c.s-r.	5/16" steel	.....	500,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	5/16" steel	.....	500,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	5/16" steel	.....	500,000 c.m. a.c.s-r.	.....
2	336,400 c.m. a.c.s-r.	5/16" steel	Nov., 1910	3/0 aluminum	Oct., 1914
2	336,400 c.m. a.c.s-r.	5/16" steel	Nov., 1910	3/0 aluminum	Oct., 1914
2	336,400 c.m. a.c.s-r.	5/16" steel	Dec., 1910	3/0 aluminum	Oct., 1914
2	336,400 c.m. a.c.s-r.	5/16" steel	Oct., 1910	3/0 aluminum	June, 1915
2	266,800 c.m. a.c.s-r.	5/16" steel	Oct., 1910	3/0 aluminum	June, 1915
2	266,800 c.m. a.c.s-r.	5/16" steel	Oct., 1910	3/0 aluminum	June, 1915
1	312,000 c.m. a.c.s-r.	5/16" steel	Dec., 1910	3/0 aluminum	Dec., 1919
1	266,800 c.m. a.c.s-r.	5/16" steel	Dec., 1910	2/0 aluminum	June, 1915
1	266,800 c.m. a.c.s-r.	removed	Dec., 1910	3/0 aluminum	June, 1915
2	266,800 c.m. a.c.s-r.	5/16" steel	Dec., 1910	3/0 aluminum	Oct., 1913
2	167,800 c.m. copper	5/16" steel	Aug., 1914	167,800 c.m. copper	.....
2	167,800 c.m. copper	5/16" steel	Aug., 1914	167,800 c.m. copper	.....
6	605,000 c.m. a.c.s-r.	none	Jan., 1922	605,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	7/16" steel	Jan., 1922	500,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Oct., 1922	605,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Oct., 1922	605,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Sept., 1923	605,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Apr., 1924	605,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	5/16" steel	Aug., 1924	500,000 c.m. a.c.s-r.	.....
construction					
2	605,000 c.m. a.c.s-r.	5/16" steel	.....	.....	.....
1	3/0 a.c.s-r.	none	.....	.....	.....

miles of 211,600 c.m. copper.
3.80 miles of 211,600 c.m. copper from Humber river to Toronto transformer station.
1.19 miles of 266.800 c.m. steel reinforced aluminum conductor.
circuit towers.
1922, second circuit placed in operation Oct., 1923.

For Telephone see next page.

* All Browne & Sharpe gauge except where otherwise noted.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of pole in feet	Avg. span in feet	Miles
N 1 x 2	A	Niagara trans. sta.	Dundas trans. sta.	30	132	54.16
N 1 x 2	AA	Niagara trans. sta.	Dundas trans. sta.	30	132	50.00
N 2 x 13 N13 x 16 *d* N16 x 3	B	Dundas trans. sta.	Toronto city limits	30	132	35.87
N 2 x 12	C	Dundas trans. sta.	Brant trans. sta.	30	132	22.90
N12 x 10	D	Brant trans. sta.	Woodstock trans. sta.	30	132	21.53
N10 x 4	E	Woodstock trans. sta.	London trans. sta.	30	132	26.03
N 2 x 5	F	Dundas trans. sta.	Guelph trans. sta.	30	132	26.12
N 5 x 6	P-1	Guelph trans. sta.	Preston trans. sta.	30	132	12.78
N 6 x 7	P-2	Preston trans. sta.	Kitchener trans. sta.	30	132	9.09
N 7 x 8	H	Kitchener trans. sta.	Stratford trans. sta.	30	132	28.75
N 8 x 9	I	Stratford trans. sta.	St. Marys trans. sta.	30	132	15.28
N 9 x 4	J	St. Marys trans. sta.	London trans. sta.	30	132	27.81
N 4 x 11	K	London trans. sta.	St. Thomas trans. sta.	30	132	16.09
N11 x 14	L	St. Thomas trans. sta.	Kent trans. sta.	30	132	58.04
N14 x 15	M	Kent trans. sta.	Essex trans. sta.	30	132	44.77
N20 x 1	....	Queenston gen. sta.	Niagara trans sta.	25	150	6.16
N20 x 25*a*	....	Queenston gen. sta.	Ont. Power Co. N1, etc.	25	150	6.05
N17 x 26	....	Hamilton trans. sta.	Connect system "B"	25	150	1.37
N 1 x 99*c*	....	Queenston gen. sta.	Ont. Power Co. & Elect. Development Co. trans. sta.	..	..	6.96
K 1 x 99	....	Jct. No. 142 (St. Clair ave.)	Chief Engineer's residence	..	...	0.57
K 1 x 99	....	Jct. pole No. 142 (St. Clair ave.)	Oper. Engineer's residence	..	...	1.42
K 1 x 99	....	Administration bld.	Strachan ave.	..	...	2.50
K 1 x 99	....	Administration bld.	Administration annex	..	...	0.34
K 1 x 99	....	Administration bld.	Davenport sta.	..	...	1.70
						476.29
		Tor. Power Co. telephone lines				8.51
			Total mileage			484.80

a N20 x 25 carried on 204 O.P.Co. poles and 15 H.E.P.C. poles—Total of 219 poles.

c Queenston gen. sta. ..... Ont. Power Co. trans. sta ..... 5.72 miles .....
Ont. Power trans. sta ..... Elect. Development Co ..... 1.01 " .....
Elect. Devel. Co ..... Ont. Power Co. forebay ..... 0.23 " .....

OF LINES

HIGH-TENSION TELEPHONE LINES

No. of poles	No. of circuits	Number, size and material of conductors	Date placed in operation	No. of poles with attachments	Size of original wire	Remarks
1,949	4	2-No. 9 B. & S.G. copper 2-No. 10 B. & S.G. copper.	1910			
1,405	1	No. 9 B. & S.G. copper	1915			
1,519	4*b*	2-No. 9 B. & S.G. copper 1-No. 8 B. & S.G. c.c. steel 1-No. 10 B. & S.G. copper	1910	222 124 57		
957	2	1-No. 9 B. & S.G. copper 1-No. 10 B. & S.G. copper	1910	155		
888	2	1-No. 9 B. & S.G. copper 1-No. 10 B. & S.G. copper	1910	238		
1,074	2	1-No. 10 B. & S.G. copper 1-No. 11 B. & S.G. copper	1910	448		
1,093	1	1-No. 10 B. & S.G. copper	1910			One circuit removed 1922
535	1	1-No. 10 B. & S.G. copper	1910	28		
400	1	1-No. 10 B. & S. G.copper	1910	406		
1,164	1	1-No. 10 B. & S.G. copper	1910	60		
634	1	1-No. 10 B. & S.G. copper	1910			
1,204	2	1-No. 10 B. & S.G. copper 1-No. 11 B. & S.G. copper	1910			
696	2	1-No. 10 B. & S.G. copper 1-No. 12 B. & S.G. copper	1910	73		
2,370	2	No. 9 B. & S.G. copper	1914	45		
1,829	2	No. 9 B. & S.G. copper	1914			
225	2	No. 9 B. & S.G. h-d. copper	1921			
15	4	No. 9 B. & S.G. h-d. copper	1922			
56	4	No. 8 B. & S.G. c-c. steel	1923			
...	15 prs. 50 prs.	No. 19 Paper insul. lead covered copper.....	1924			
30	1	No. 12 B.W.G. w-p. iron	1919			
74	1	No. 12 B.W.G. w-p. iron	1919			
....	25 prs.	No. 19 Paper insul. lead covered cop.	1915			
....	50 prs.	No. 22 Paper insul. lead covered cop.	1923			
....	25 prs.	No. 19 Paper insul. lead covered cop.	1924			

b 4 circuits and 2 phantom. *d* Carried on T.H.E.S. poles from city limits to Toronto trans. sta.
50 prs. No. 19 Paper-insul. lead-covered copper
15 prs. No. 19 Paper-insul. lead-covered copper
15 prs. No. 19 Paper-insul. lead-covered copper

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
			Lines terminating					
N. 161 x 1	L.T. 75	Jct. tower No. 308.....	Welland mun. sta.....	48	250	0.53	10	46,000
175 x 5	.....	Pole No. 56.....	Stamford Tp. sta.....	35	150	0.69	26	12,000
166 x 6	207	Pole No. 100.....	Niagara-on-the-Lake..	30	125	7.83	334	12,000
169 x 9	156	Pole No. 79.....	Niagara Falls mun.sta.	50	125	0.69	32	12,000
161 x 10*a*	74	Tower No. 308.....	Union Carbide Co....	48	250	1.93	49	46,000
171 x 11	164	Tower No. 330.....	Dunnville mun. sta...	35	176	21.54	672	46,000
176 x 16	168	Pole No. 52.....	Queenston Quarry....	35	120	0.41	18	12,000
179 x 19	.....	O.P. Co., Pt. Colborne, D.S.....	Internat. Nickel Co...	40	125	1.00	46	30,000
171 x 4*a*	75	Jct. tower No. 330.....	Electro Metals sta....	48	250	0.17	5	46,000
168 x 44	.....	Merritton mun. sta....	St.Catharines mun.sta.	.....	125	2.50	104	12,000
26 x 127	.....	Tor. Power Co. T.S....	Norton Co.....	45	150	1.98	75	12,000
			Lines terminating					
N. 114 x 52	L.T.	St. Catharines mun. sta.	Beamsville dist. sta...	35	150	13.40	507	12,000
152 x 53	.....	Beamsville dist. sta....	Grimsby dist. sta.....	35	150	6.58	103	12,000
176 x 47	169	Pole No. 52.....	St. Davids dist. sta...	35	120	0.44	20	12,000
			Lines terminating					
25 x 160	.....	O.P.Co. dist. sta.....	Jct. Pole No. 18 at Allen & Murray Sts.	.....	.....	0.31	.....	12,000
170 x 61*a*	74	Tower No. 118.....	Tower No. 308.....	48	250	8.59	190	46,000
173 x 65	162	Pole No. 153.....	Pole No. 205.....	35	100	1.13	53	12,000
147 x 66	171	St. Davids D.S.....	Pole No. 100.....	35	120	0.55	26	12,000
101 x 71*a*	164-A	Welland tower No. 320.	Tower No. 330.....	48	250	0.53	11	46,000
165 x 76	167	Pole No. 205.....	Pole No. 52..,.....	35	120	1.40	52	12,000
1 x 170*a*	73	Niagara trans sta.....	Tower No. 118.....	48	250	5.01	118	46,000
1 x 174	175	Niagara trans. sta.....	Tower No. 118.....	.....	.....	5.25	.....	46,000
20 x 173	.....	Queenston gen. sta.....	Pole No. 146.....	35	132	3.00	127	12,000
160 x 75*b*	162	Jct. pole No. 18.....	Pole No. 56.....	35	100	0.78	38	12,000
175 x 69	162	Pole No. 56.....	Pole No. 79.....	35	100	0.48	23	12,000
169 x 73	162	Pole No. 79.....	Pole No. 153.....	35	100	1.47	74	12,000

For inter-connected lines at 12,000 volts see Ontario Power Co., System "A."

*a*Towers. *b*Twelve iron tel. line for A2 x 71 carried on these poles.

OF LINES

NIAGARA DISTRICT—SYMBOL N1

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
2	2/0 copper.	8 c-c. steel	1/4" steel	O.B. San. & Keokuk, C.P. 356	6	July 11, 1914	Oct. 17, 1914
1	2 a.c.s-r.	9 galv. iron†	None	O.B. 12546	15	May 10, 1921	July 3, 1921
1	6 copper	None	None	.....	128	Built 1908, purchased 1919	1908
2	2/0 a.c.s-r.	10 c-c. steel	None	O.B. 12546	.....	Nov. 14, 1922	Feb. 8, 1923
4	4/0 copper	8 c-c. steel	1/4" steel	O.B. San. & Keokuk, C.P. 1725	.....	Mar. 15, 1914	Aug. 20, 1914
1	5/16" steel	9 galv. iron†	1/4" steel	J.D. Insul.	24	Aug. 17, 1917	Mar. 21, 1918
1	6 copper	None	None	Vic. 407	.....	Built by O.P.	Co.
2	105,530 a.c.s-r.	10 c-c. steel	None	C.P. 1162	.....	Aug., 1922	Sept. 20, 1922
1	2/0 copper	8 c-c. steel	1/4" steel	O.B. San. & Keokuk	.....	.....	Oct. 17, 1913
2	4/0 a.c.s-r.	6 a.c.s-r.	5/16" steel	C.P. 793	97	.....	Sept. 10, 1924
1	190,000 c.m.cop	None	3/8" steel	C.P. 793	.....	.....	1917
at distributing stations							
1	2/0 a.c.s-r.	6 a.c.s-r.	None	Thom 2111	.....	Oct. 12, 1922	Jan. 8, 1923
1	2/0 a.c.s-r.	6 a.c.s-r.	None	Thom 2111	.....	Oct. 12, 1922	Feb. 10, 1923
1	6 copper	None	None	Vic. 407	.....	Built by O.P.	Co.
at junctions							
2	2/0 copper	None	None	.....	.....	.....	.....
4	4/0 copper	8 c-c. steel	1/4" steel	O.B. San. & Keokuk, C.P. 106	.....	Mar. 15, 1914	Aug. 20, 1914
1	4 copper	12 galv. iron	None	Vic. 407	.....	Built by O.P.	Co.
1	6 copper	None	None	Vic. 407	.....	Built by O.P.	Co.
2	2/0 copper	8 c-c. steel	1/4" steel	O.B. San. & Keokuk, C.P. 1725	9	July 11, 1914	Oct. 17, 1914
1	6 copper	None	None	Vic. 407	.....	Built by O.P.	Co.
4	4/0 copper	8 c-c. steel	1/4" steel	O.B. San. & Keokuk, C.P. 356	.....	Mar. 15, 1914	Aug. 20, 1914
2	7/16" steel	None	None	C.P. 1725	.....	Nov. 13, 1917	.....
1	1 copper	None	None	C.P. 793	.....	.....	May 30, 1922
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	31	Built by O.P.	Co.
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	12	Built by O.P.	Co.
2	173,000 c.m. al.	12 galv. iron†	None	Vic. 407	83	Built by O.P.	Co.

*All Browne & Sharpe gauge except where otherwise noted.
†Birmingham Wire Gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
N. 2 x 201	L.T. 1	Dundas trans. sta.....	Hamilton mun. sta....	50½	206	2.85	73	13,200
264 x 2	118	Pole No. 82.....	Dundas mun. sta.....	55	120	0.12	7	13,200
270 x 10	50	Pole No. 941.....	Ont. Gypsum Co.....	40	120	5.19	229	13,200
								Lines terminating
271 x 34	129	Pole No. 328.....	Lynden dist. sta.....	35	132	4.53	185	13,200
266 x 35	38	Pole No. 260.....	Dom.Sew.Pipe Co.sta.	40	120	1.93	90	13,200
2 x 237	47	Dundas trans. sta.....	Caledonia dist. sta....	40	120	14.97	669	13,200
270 x 39	49	Pole No. 941.....	Hagersville dist. sta...	40	120	3.85	173	13,200
266 x 36	.....	Pole No. 260.....	Waterdown dist. sta..	35	120	1.50	73	13,200
210 x 46	.....	Lythmore (Ont. Gyp. Co.).....	Decewsville dist. sta..	35	175	3.15	105	13,200
								Lines terminating
2 x 263	43	Dundas trans. sta.....	Pole No. 69.....	40	120	1.21	65	13,200
263 x 64	118	Pole No. 69.....	Pole No. 82.....	55	120	0.25	13	13,200
2 x 266	38	Dundas trans. sta.....	Pole No. 260.....	40	120	5.44	260	13,200
237 x 70	48	Caledonia dist. sta.....	Pole No. 941.....	40	120	6.10	267	13,200
264 x 71	129	Pole No. 82.....	Pole No. 328.....	35	132	5.78	245	13,200

NOTE.—Other connected low-tension lines in this district are owned by the municipality.

NIAGARA SYSTEM—

N. 3355x27	L.T.	Can. Wire & Cable Co..	C.N. Rly.....	40	135	0.32	12	12,000
3387x27	.....	Can. N. Rly. jct.....	C.N. Rly.....	.....	.....	.....	.....	.....
3365x40*a*	.....	Eglinton jct.....	York Mills sta.....	45	100	2.61	113	12,000
3382x42	.....	Langstaff jct.....	Bond Lake sta.....	45	100	5.54	.....	12,000
3342x46	.....	Bond Lake sta.....	Newmarket sta.....	45	100	9.22	512	12,000
3346x49	.....	Newmarket sta.....	Keswick sta.....	30	100	14.63	800	12,000
3382x52	.....	Langstaff jct.....	Mount Joy sta.....	35	175	8.83	266	12,000
3340x82	.....	York Mills sta.....	Langstaff jct.....	45	100	7.64	.....	12,000
31x3387	.....	Bridgman Ave. sta.....	C.N. Rly. jct.....	.....	.....	.....	.....	.....

NOTE.—Other connected low-tension lines in this district are owned by municipality.
*a*Carried on T.H.E.S. poles, from Eglinton Jct. pole No. 182 to City limits = 1.95 miles.
For inter-connected Toronto Power Co. lines purchased by Commission, see page 584.

OF LINES

DUNDAS DISTRICT—SYMBOL N2

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
4	4/0 h-d. copper	10 c-c. steel 8 iron wire†	1/4" galv. steel	C.P. 133	.....	April 7, 1915	Oct. 4, 1915
2	4 copper	10 copper	1/4" galv. steel	C.P. 136	.....	Feb. 25, 1915	Mar. 15, 1915
1	3/0 aluminium	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	June 15, 1912	Sept. 20, 1912
at distributing stations							
1	2 a.c.s-r.	9 galv. iron†	1/4" galv. steel	O.B. 12547	14	July 24, 1915	Oct. 22, 1915
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	90	July 21, 1911	April 6, 1912
1	3/0 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	47	May 10, 1912	Sept. 20, 1912
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Feb. 28, 1913	Aug. 15, 1913
1	2 aluminum	8 c-c. steel	1/4" galv. steel	C.P. 793	.....	Sept. 30, 1911	April 6, 1912
1	2 a.c.s-r.	None	None	C.P. 793	.....	Aug. 22, 1924	Oct. 27, 1924
at junctions							
2	4 copper	10 c-c. steel	1/4" galv. steel	Thom 2041	61	Dec. 1, 1911	Dec. 21, 1911
2	4 copper	10 copper	1/4" galv. steel	C.P. 136	13	Feb. 25, 1915	Mar. 15, 1915
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	July 21, 1911	April 6, 1912
1	3/0 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	June 22, 1912	Sept. 20, 1912
1	2 a.c.s-r.	9 galv. iron†	1/4" galv. steel	O.B. 12547	8	July 24, 1915	Oct. 22, 1915

TORONTO DISTRICT—SYMBOL N3

1	115,000 c.m.cop	None	None	European 690 E.T.	.....	Mar. 7, 1924	Mar. 16, 1924
.....	.....	.....	.....	.....	.....	.....	.....
2	190,000 c.m.cop	None	None	C.P. 793	113	Re-str'g 1924	1910
1	133,000 c.m.cop	None	None	O.B. 9410	.....	.....	1911
1	133,000 c.m.cop	None	None	O.B. 9410	.....	.....	1911
1	2 h-d. copper	None	None	O.B. 11029 Imperial Porcelain 12,000 volts	.....	.....	1911
1	2 a.c.s-r.	None	None	Thom 2111	.....	Aug. 3, 1923	Sept. 24, 1923
1	133,000 c.m.cop	None	None	O.B. 9410	.....	.....	1911
.....	.....	.....	.....	.....	.....	.....	.....

*All Browne & Sharpe gauge, except where otherwise noted.
†Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
N.	L.T.							
464 x 5	98	Pole No. 944	Strathroy mun. sta...	40	120	9.27	425	13,200
467 x 6	77	Pole No. 388	Thorndale	35	132	4.27	179	13,200
								Lines terminating
462 x 32	119	Pole No. 760	Delaware dist. sta....	55	120	0.09	5	13,200
469 x 39	76	Pole No. 38	Dorchester dist. sta...	35	132	5.28	219	13,200
472 x 42	210	Pole No. 757	Ailsa Craig dist. sta...	30	132	9.92	402	13,200
440 x 43	136	Lucan dist. sta	Exeter dist. sta	35	132	13.24	558	13,200
472 x 40	99	Pole No. 757	Lucan dist. sta	35& 40	132	3.00	123	13,200
481 x 51	.....	Pole No. 245	Broughdale dist. sta...	35	150	1.58	59	13,200
								Lines terminating
463 x 62	96	Pole No. 462	Pole No. 760	40	120	6.59	298	13,200
4 x 463	95	London trans. sta	Pole No. 462	40	120	10.13	457	13,200
462 x 64	97	Pole No. 760	Pole No. 944	40	120	3.99	184	13,200
439 x 67	77	Dorchester dist. sta....	Pole No. 388	35	132	3.04	132	13,200
4 x 469*a*	18	London trans. sta	Pole No. 38	40	120	0.81	38	13,200
469 x 70*b*	19	Pole No. 38	Pole No. 99	45	120	1.38	61	13,200
470 x 81	99	Pole No. 99	Pole No. 245	35& 40	132	3.57	146	13,200
481 x 72	99	Pole No. 245	Pole No. 757	35& 40	132	12.61	513	13,200

a N4 x 469 L.T. 18—Arms, pins, poles and hardware owned by H.E.P.C., 1 circuit of 3/0 B. &
b N469 x 70 L.T. 19—1-circuit of 2 B. & S.G. alum., with insulators owned by London local Hydro.
N469 x 1 L.T. 20—Jct. pole No. 38 L.T. 18 to Jct. pole No. 93 L.T. 20, 1 circuit of 3/0 B. & S. G.
N 4 x 401 L.T. 21—2-circuits of 3/0 B. & S. G. alum., together with insulators, cross arms, poles,
N 469 x 1 L.T. 22—1-circuit of 3/0 B. & S. G. alum., together with insulators, cross arms, poles,
N 470 x 17—1-circuit of 2 B. & S. G. alum., together with insulators, cross arms, poles, etc.,
Other connected low-tension lines in this district are owned by the municipality.

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
N.	L.T.							
5 x 501	32	Guelph struct	Station Property Bdry.	40	120	0.08	5	13,200
562 x 2	31	Pole No. 70	Ont. Agric. College...	40	120	0.10	8	13,200
565 x 5	57A	Pole No. 155	Prison Farm	40	120	0.08	3	13,200
								Lines terminating
564 x 33	86	Pole No. 776	Elora dist. sta	40	120	1.18	57	13,200
564 x 34	87	Pole No. 776	Fergus dist. sta	35	120	1.95	92	13,200
566 x 36	66	Pole No. 453	Rockwood dist. sta...	35	120	1.64	77	13,200
567 x 37	59	Pole No. 717	Acton dist. sta	40	120	0.07	5	13,200
568 x 38	94	Pole No. 1005	Cheltenham dist. sta..	35	132	5.05	218	13,200
568 x 39	65	Pole No. 1005	Georgetown dist. sta..	40	120	2.68	121	13,200

OF LINES

LONDON DISTRICT—SYMBOL N4

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	147	Sept. 14, 1914	Nov. 30, 1914
1	2 aluminum	None	1/4" galv. steel	Thom 2041	.....	Oct. 10, 1913	Feb. 6, 1914
at distributing stations							
1	2 copper	10 c-c. steel	1/4" galv. steel	O.B. 9413	5	Jan. 27, 1915	Feb. 1, 1915
1	2 aluminum	10 galv. iron†	1/4" galv. steel	Thom 2041	91	Sept. 18, 1913	Jan. 27, 1914
1	2 a.c.s-r.	6 a.c.s-r.	9/32"galv.steel	C.P. 793	32	Nov. 12, 1919	May 2, 1920
1	3/0 aluminum	9 galv. iron†	1/4" galv. steel	O.B. 12546	76	Nov. 26, 1915	May 4, 1916
2	2 a.c.s-r.	10 galv. iron†	1/4" galv. steel	C.P. 136	11	Oct. 23, 1914	Jan. 21, 1915
1	2 a.c.s-r.	9 galv. iron†	None	C.P. 889	56	July 14, 1924	Aug. 1, 1924
at junctions							
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	39	Oct. 15, 1914	Nov. 30, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	334	Sept. 1, 1914	Nov. 30, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	33	Sept. 29, 1914	Nov. 30, 1914
1	2 aluminum	None	1/4" galv. steel	Thom 2041	.....	Oct. 10, 1913	Feb. 6, 1914
3	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	34	Oct. 26, 1910	Jan. 10, 1911
2	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	61	Oct. 26, 1910	Jan. 19, 1911
2	2 a.c.s-r.	10 galv. iron†	1/4" galv. steel	C.P. 136	88	Oct. 23, 1914	Jan. 21, 1915
2	2 a.c.s-r.	10 galv. iron†	1/4" galv. steel	C.P. 136	14	Oct. 23, 1914	Jan. 21, 1915

S. G. alum., with insulators from pole No. 5 to Jct. pole No. 38, owned by London local Hydro.

alum., together with insulators, cross arms and poles owned by London local Hydro.
etc., owned by London local Hydro.
etc., owned by London local Hydro.
owned by London local Hydro.

GUELPH DISTRICT—SYMBOL N5

at customers							
3	3/0 aluminum	10 c-c. steel	1/4" galv. steel	.....	.....	Aug. 7, 1911	Sept. 4, 1911
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 793	8	July 21, 1911	Nov. 9, 1911
1	2 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	May 14, 1913	Sept. 4, 1913
at distributing stations							
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Aug. 18, 1914	Oct. 22, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	12	Aug. 1, 1914	Oct. 22, 1914
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	May 6, 1913	Aug. 1, 1913
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	6	Aug. 19, 1912	Dec. 14, 1912
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	.....	.....	June 10, 1914	July 3, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	17	Mar. 11, 1913	Aug. 1, 1913

* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
Lines terminating								
5 x 562	31	Guelph trans. sta.....	Pole No. 70.....	40	120	1.46	70	13,200
562 x 63	57	Pole No. 70.....	Pole No. 118.....	40	120	1.07	48	13,200
563 x 64	85	Pole No. 118.....	Pole No. 776.....	40	120	14.64	658	13,200
563 x 65	57	Pole No. 118.....	Pole No. 155.....	40	120	0.86	37	13,200
565 x 66	58	Pole No. 155.....	Pole No. 453.....	40	120	6.41	298	13,200
566 x 67	59	Pole No. 453.....	Pole No. 717.....	40	120	5.78	264	13,200
567 x 68	65	Pole No. 717.....	Pole No. 1005.....	40	120	6.37	288	13,200

NOTE.—Other connected low-tension lines in this district are owned by the municipality.

NIAGARA SYSTEM—

N.	L.T.							
6 x 601	17 & 35	Preston trans. sta.....	Preston corporation sta	35	120	0.14	11	13,200
Lines terminating								
601 x 2	35	Preston corp. sta.....	G.P. & H. Rly.....	40	120	0.12	6	13,200
664 x 3*a*	16	Pole No. 99.....	Galt mun. sta.....	40	120	3.75	175	13,200
664 x 4	15	Pole No. 99.....	Hespeler mun. sta....	40	120	2.09	99	13,200
Lines terminating								
6 x 664	14	Preston trans. sta.....	Pole No. 99.....	45	120	2.04	99	13,200

a N664 x 3, L.T. 16, 63 poles from No. 212 to No. 274 inclusive were supplied and erected by Galt

NIAGARA SYSTEM—

N.	L.T.							
762 x 1 *a*	6	Pole No. 10.....	Kitchener mun. sta...	45	120	0.76	34	13,200
Lines terminating								
762 x 2 *c*	5	Pole No. 9.....	Waterloo mun. sta....	40	120	1.64	79	13,200
Lines terminating								
702 x 33	71	Waterloo mun. sta.....	St. Jacobs dist. sta....	40	120	6.28	299	13,200
733 x 34	71	St. Jacobs dist. sta.....	Elmira dist. sta.....	40	120	4.62	218	13,200
765 x 35	7A	Pole No. 405.....	Baden dist. sta.....	40	120	0.11	7	13,200
766 x 37	7	Pole No. 463.....	New Hamburg dist.sta	40	120	1.89	92	13,200

a N762 x 1, L.T. 6, 35 poles, from No. 10 to No. 44 inclusive, were supplied and erected
c N762 x 2, L.T. 5, 9 poles, from No. 80 to No. 88 inclusive, were supplied and erected

OF LINES

GUELPH DISTRICT—SYMBOL N5—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at junctions							
2	1-1/0 aluminum 1-3/0 aluminum	10 c-c. steel	1/4"galv. steel	C.P. 793	65	July 21, 1911	Nov. 9, 1911
2	1-3/0 aluminum 1-3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Aug. 19, 1912	Dec. 14, 1912
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	June 3, 1914	Oct. 22, 1914
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Aug. 19, 1912	Dec. 14, 1912
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Aug. 19, 1912	Dec. 14, 1912
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	28	Aug. 19, 1912	Dec. 14, 1912
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	54	Mar. 11, 1913	Aug. 1, 1913

PRESTON DISTRICT—SYMBOL N6

at customers

2	1/0 aluminum 2 copper	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Built by Preston Corp.	
2	1/0 aluminum 1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Mar. 13, 1911	Mar. 21, 1911
2	4/0 aluminum	10 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041	19	Oct. 8, 1910	Jan. 19, 1911
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	45	Oct. 8, 1910	Dec. 30, 1910
at junctions							
3	1-2 aluminum 2-4/0 aluminum	10 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041 C.P. 793	43	Oct. 8, 1910	Jan. 19, 1911

local Hydro.

KITCHENER DISTRICT—SYMBOL N7

at customers

2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041	34	Aug. 25, 1910	Sept. 11, 1910
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041	78	Sept. 11, 1910	Nov. 25, 1910
at distributing stations							
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	50	May 17, 1913	Oct. 25, 1913
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	11	May 17, 1913	Oct. 25, 1913
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	7	.....	May, 1912
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	9	Sept. 11, 1910	Feb. 3, 1911

by Kitchener local Hydro.
by Waterloo local Hydro.

* All Browne & Sharpe gauge, except where otherwise noted.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
			Lines terminating					
7 x 762*b*	4	Kitchener trans. sta....	Pole No. 9.....	40	120	0.18	10	13,200
7 x 765	7	Kitchener trans. sta....	Pole No. 405.....	40	120	9.09	405	13,200
765 x 66	7	Pole No. 405.....	Pole No. 463.....	40	120	1.29	58	13,200

b N7 x 762, L.T. 4, 5 poles, from No. 5 to No. 9 inclusive, were supplied and erected

NOTE.—Other connected low-tension lines in this district are owned by the municipality.

NIAGARA SYSTEM—

N.	L.T.							
			Lines terminating					
863 x 3	30	Pole No. 647.....	Mitchell mun. sta.....	40	120	1.27	59	26,400
865 x 5	29	Pole No. 1153.....	Seaforth mun. sta....	40	120	1.50	74	26,400
866 x 6	28	Pole No. 1550.....	Clinton mun. sta.....	40	120	1.27	62	26,400
866 x 7	150	Pole No. 1550.....	Goderich mun. sta....	40	120	13.61	610	26,400
			Lines terminating					
8 x 832	125	Stratford trans. sta....	Tavistock dist. sta....	35	132	9.72	398	26,400
863 x 34	148	Pole No. 647.....	Dublin dist. sta.....	40	120	5.08	224	26,400
868 x 38	139	Pole No. 802.....	Milverton dist. sta....	35	132	0.96	38	26,400
869 x 39	141	Pole No. 1314.....	Listowel dist. sta.....	35	132	2.77	120	26,400
871 x 40	142	Pole No. 1726.....	Palmerston dist. sta...	35	132	0.42	18	26,400
871 x 41	143	Pole No. 1726.....	Harriston dist. sta....	35	132	6.12	260	26,400
865 x 46	.....	Pole No. 1154.....	Walton dist. sta.....	35	175	9.45	339	26,400
			Lines terminating					
867 x 63	147	Pole No. 311.....	Pole No. 647.....	40	120	7.61	336	26,400
834 x 65	148	Dublin dist. sta.....	Pole No. 1153.....	40	120	6.28	282	26,400
865 x 66	149	Pole No. 1153.....	Pole No. 1550.....	40	120	8.84	397	26,400
8 x 867	146	Stratford trans. sta....	Pole No. 311.....	40	120	6.81	311	26,400
867 x 68	138	Pole No. 311.....	Pole No. 802.....	35	132	11.92	491	26,400
868 x 69	140	Pole No. 802.....	Pole No. 1314.....	35	132	12.83	512	26,400
869 x 70	142	Pole No. 1314.....	Pole No. 1657.....	35	132	8.40	343	26,400
872 x 71	142	Pole No. 1687.....	Pole No. 1726.....	35	132	0.84	39	26,400
870 x 72	142	Pole No. 1657.....	Pole No. 1687.....	35	132	0.78	30	26,400

NOTE.—From Pole No. 1688 to Palmerston dist. sta., No. 9 B.W.G. galv.-iron tel. wire replaced
Other connected low-tension lines in this district are owned by the municipality.
For inter-connected lines, see Eugenia system, Symbol "E."

OF LINES

KITCHENER DISTRICT—SYMBOL N7—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at junctions							
4	1/0 aluminum	10 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041	5	Aug. 25, 1910	Sept. 11, 1910
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	43	Sept. 11, 1910	Feb. 3, 1911
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	9	Sept. 11, 1910	Feb. 3, 1911

by Kitchener local Hydro.

STRATFORD DISTRICT—SYMBOL N8

at customers

2	2 aluminum	10 c.c. steel	1/4" galv. steel	Thom 2041	.....	Mar. 24, 1911	Aug. 3, 1911
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Mar. 25, 1911	Sept. 13, 1911
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889	.....	April 6, 1911	Aug. 4, 1911
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889	.....	April 23, 1913	Dec. 23, 1914

at distributing stations

1	6 galv. iron †	9 galv. iron †	6 galv. iron †	C.P. 133	.....	Sept. 9, 1915	Oct. 26, 1916
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	Oct. 15, 1915	May 18, 1916
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	Oct. 28, 1915	May 27, 1916
1	1/0 a.c.s-r.	9 galv. iron †	1/4" galv. steel	O.B. 11622	18	Oct. 14, 1915	June 6, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	18	Dec. 10, 1915	June 30, 1916
1	5/16"galv. steel	9 galv. iron †	None	C.P. 889	22	Mar. 3, 1924	July 11, 1924

at junctions

2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889	.....	April 23, 1913	Dec. 23, 1914
3	3/0 aluminum	6 a.c.s-r. 10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	.....	Sept. 20, 1915	May 18, 1916
1	1/0a.c.s-r	6 a.c.s-r	1/4" galv. steel	O.B. 11622	.....	Oct. 13, 1915	May 27, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	.....	Oct. 14, 1915	June 6, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	22	Oct. 14, 1915	June 6, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	.....	Oct. 14, 1915	June 6, 1916

with No. 8 B. & S.G. copper.
* All Browne & Sharpe gauge, except where otherwise noted.
† Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
N. 961 x 32	L.T. 46	Pole No. 33.....	St. Mary's Portland Cement Co. dist. sta.	40	120	1.55	49	13,200
Lines terminating								
9 x 961*a*	46	St. Mary's trans. sta...	Pole No. 33.....	40	120	0.67	33	13,200

a N9 x 961, L.T. 46, 29 poles, from pole No. 4 to pole No. 32 inclusive are owned by St. Marys

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
N. 1062 x 2	L.T. 109	Pole No. 76.....	W.T.V. & I. Rly.....	.....	.....	0.02	2	13,200
1073 x 5	8	Pole No. 324.....	Ingersoll mun. sta....	40	120	2.80	131	13,200
1066 x 9	10	Pole No. 508.....	Tillsonburg mun. sta..	40	120	10.30	467	13,200
Lines terminating								
1064 x 33	106	Pole No. 289.....	Embro dist. sta.....	35	132	6.04	256	13,200
1064 x 34	45	Pole No. 289.....	Beachville dist. sta....	30	50	0.01	1	13,200
1066 x 36	11	Pole No. 508.....	Norwich dist. sta.....	40	120	4.59	208	13,200
Lines terminating								
10 x 1062	8	Woodstock trans. sta...	Pole No. 76.....	40	120	1.57	76	13,200
1062 x 64	8	Pole No. 76.....	Pole No. 289.....	40	120	4.70	213	13,200
10 x 1066	9	Woodstock trans. sta...	Pole No. 508.....	40	120	11.08	503	13,200
1064 x 73	8	Pole No. 289.....	Pole No. 324.....	40	120	0.83	35	13,200

OF LINES

ST. MARYS DISTRICT—SYMBOL N9

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at distributing stations							
1	3/0 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	June 15, 1912	Sept. 7, 1912
at junctions							
1	3/0 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	June 15, 1912	Sept. 7, 1912

local Hydro.

WOODSTOCK DISTRICT—SYMBOL N10

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
1	2 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Sept. 12, 1914	Sept. 13, 1914
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041 C.P. 793	66	Nov. 14, 1910	Mar. 28, 1911
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041 C.P. 793	29	Jan. 2, 1911	April 29, 1911
at distributing stations							
1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Oct. 1, 1914	Dec. 22, 1914
1	1/0 aluminum	.....	1/4" galv. steel	Thom 2041	.....	June 1, 1912	July 17, 1912
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041 C.P. 793	33	Feb. 13, 1911	Mar. 30, 1911
at junctions							
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 793 Thom 2041	3	Nov. 14, 1910	Mar. 28, 1911
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 793 Thom 2041	16	Nov. 14, 1910	Mar. 28, 1911
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 793 Thom. 2041	239	Jan. 2, 1911	April 29, 1911
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041 C.P. 793	35	Nov. 14, 1910	Mar. 28, 1911

* All Browne & Sharpe gauge, except where otherwise noted.

DESCRIPTION
NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
N. 11x1101*a*	L.T. 12	St. Thomas trans. sta..	St. Thomas mun. sta..	40	120	1.13	47	13,200
								Lines terminating
1134 x 35	153	Dutton dist. sta.....	West Lorne dist. sta..	30	132	7.60	312	13,200
1168 x 37	41	Pole No. 112.....	Port Stanley dist. sta.	35	120	10.03	462	13,200
1168 x 38	174	Pole No. 112.....	Aylmer dist. sta.....	35	132	9.60	405	13,200
1162 x 34	121	Pole No. 5.....	Dutton dist. sta.....	30	132	18.33	756	13,200
								Lines terminating
11 x 1162	121	St. Thomas trans. sta..	Pole No. 5.....	30	132	0.04	4	13,200
11 x 1168	41	St. Thomas trans. sta..	Pole No. 112.....	35	120	2.24	112	13,200

a N11 x 1101, L.T. 12, from pole No. 5 to No. 47 inclusive (St. Thomas mun. sta.) sold to St.

NIAGARA SYSTEM—

N.	L.T.							**Lines terminating**
1262 x 1	69	Pole No. 246.....	Brantford mun. sta...	40	120	1.47	72	26,400
1262 x 2	69A	Pole No. 246.....	L.E. & N. Rly.....	45	125	0.24	13	26,400
1267 x 6	114	Pole No. 1230.....	Simcoe mun. sta.....	35	132	0.06	5	26,400
1267 x 7	114A	Pole No. 1230.....	L.E. & N. Rly., Simcoe	45	120	0.25	11	26,400
1268 x 8	68	Pole No. 40.....	Paris mun. sta.....	40	120	2.44	110	26,400
								Lines terminating
1264 x 34	112	Pole No. 253.....	Burford dist. sta.....	35	132	3.48	142	26,400
1265 x 35	113A	Pole No. 869.....	Waterford dist. sta...	40	132	0.09	4	26,400
1270 x 40	89	Pole No. 448.....	Ayr dist. sta.....	35	120	1.20	56	26,400
1272 x 41	90	Pole No. 713.....	Drumbo dist. sta.....	35	132	0.50	21	26,400
								Lines terminating
N.	L.T.						17*a*	
12 x 1261	69	Brant trans. sta.....	Pole No. 19.....	40	120	0.33	19	26,400
1261 x 76	69	Pole No. 19.....	Pole No. 108.....	40	120	1.92	89	26,400
1286 x 64	111	Pole No. 40.....	Pole No. 253.....	35	132	5.86	228	26,400
1264 x 65	113	Pole No. 253.....	Pole No. 869.....	35	132	15.05	616	26,400
1275 x 67	114	Pole No. 1145.....	Pole No. 1230.....	35	132	2.02	85	26,400
1265 x 75	114	Pole No. 869.....	Pole No. 1145.....	35	132	6.79	276	26,400
1261 x 68	68	Pole No. 19.....	Pole No. 40.....	40	120	0.44	21	26,400
1208 x 69	88	Paris mun. sta.....	Pole No. 196.....	35	132	1.09	49	26,400
1269 x 70	88	Pole No. 196.....	Pole No. 448.....	35	132	6.14	252	26,400
1270 x 71	90	Pole No. 448.....	Pole No. 636.....	35	132	4.53	188	26,400
1271 x 72	90	Pole No. 636.....	Pole No. 713.....	35	132	1.80	77	26,400
1276 x 62	69	Pole No. 108.....	Pole No. 246.....	40	120	2.94	138	26,400

a Independent poles.

OF LINES

ST. THOMAS DISTRICT—SYMBOL N11

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Dec. 14, 1910	Dec. 30, 1910
at distributing stations							
1	1/0 a.c.s-r.	None	None	C.P. 136	.....	Dec. 4, 1916	Dec. 22, 1916
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Oct. 16, 1911	Mar. 9, 1912
1	1/0 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 889	405	Aug. 27, 1917	Feb. 11, 1918
1	1/0 aluminum	None	None	C.P. 136	22	May 3, 1915	Aug. 27, 1915
at junctions							
1	1/0 aluminum	None	None	C.P. 136	.....	May 3, 1915	Aug. 27, 1915
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	112	Oct. 16, 1911	Mar. 9, 1912

Thomas Hydro Sept., 1924.

BRANT DISTRICT—SYMBOL N12

at customers							
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	15	Dec. 15, 1913	Jan. 17, 1914
2	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	O.B. 11622	.....	Sept. 9, 1921	Sept. 21, 1921
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	4	Nov. 26, 1914	May 9, 1915
1	2 a.c.s-r.	10 galv. iron †	1/4" galv. steel	C.P. 133	.....	.....	July 14, 1916
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	28	Nov. 11, 1913	Jan. 3, 1914
at distributing stations							
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	.....	Nov. 21, 1914	May 6, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	4	Nov. 21, 1914	May 10, 1915
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	34	Sept. 15, 1914	Dec. 1, 1914
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	4	July 13, 1914	Dec. 1, 1914
at junctions							
5	2 a.c.s-r. 1-cir. 3/0 aluminum 4-cir.	10 c-c. steel	1/4" galv. steel	C.P. 102	15	Dec. 15, 1913	Jan. 17, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	89	Dec. 15, 1913	Jan. 17, 1914
1	2 a.c.s-r.	10 copper	1/4" galv. steel	C.P 102	.....	Nov. 6, 1914	May 6, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	10	Nov. 21, 1914	May 10, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	27	Nov. 26, 1914	May 9, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	63	Nov. 26, 1914	May 9, 1915
3	1-cir 2 a.c.s-r. 2-cirs., 3/0 alum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	Nov. 11, 1913	Jan. 3, 1914
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	45	July 21, 1914	Dec. 1, 1914
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	43	July 21, 1914	Dec. 1, 1914
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	July 13, 1914	Dec. 1, 1914
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	July 13, 1914	Dec. 1, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	Dec. 15, 1913	Jan. 17, 1914

* All Browne & Sharpe gauge, except where otherwise noted.
† Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
N.	L.T.							
1331 x 2	26&26A	Port Credit dist. sta...	Port Credit Brick Wks.	45	120	0.88	43	13,200
1363 x 3	163	Pole No. 30.....	Shale Brick Co.....	55	120	1.22	59	13,200
1368 x 4	27	Pole No. 230.....	Brampton mun. sta...	40	120	6.17	276	13,200
1369 x 8	62	Pole No. 381.....	Milton mun. sta.....	40	120	13.36	592	13,200
1362 x 14	36	Pole No. 84.....	H.E. Rly., Mimico....	45	120	1.64	73	13,200
								Lines terminating
1362 x 31	26	Pole No. 84.....	Port Credit dist. sta..	40	120	0.32	16	13,200
1369 x 39	79	Pole No. 381.....	Streetsville dist. sta...	45	120	0.41	19	13,200
								Lines terminating
13 x 1361	26	Cooksville trans. sta...	Pole No. 6.....	40	120	0.08	6	13,200
1361 x 62	26	Pole No. 6.....	Pole No. 84.....	40	120	1.79	78	13,200
13 x 1363	27	Cooksville trans. sta...	Pole No. 30.....	40	120	0.57	30	13,200
1363 x 64	27	Pole No. 30.....	Pole No. 89.....	40	120	1.32	59	13,200
1364 x 68	27	Pole No. 89.....	Pole No. 230.....	40	120	3.18	141	13,200
1368 x 69	62	Pole No. 230.....	Pole No. 381.....	40	120	3.36	151	13,200
1314x1661	36	H.E. Rly., Mimico....	Pole No. 332.....	45	120	3.84	177	13,200
1364x1664	34	Pole No. 89.....	Pole No. 419.....	Pole rights only.				

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
N.	L.T.							
1462 x 1	84	Pole No. 41.....	Chatham mun. sta....	40	120	1.11	59	26,400
1477 x 17	135	Pole No. 2304.....	Sarnia mun. sta.....	35	125	7.73	333	26,400
1483 x 23	.....	Pole No. 849.....	Dom. Sugar Co., Wallaceburg.....	40	125	0.81	35	26,400

OF LINES

COOKSVILLE DISTRICT—SYMBOL N13

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	31	April 5, 1911	July 23, 1911
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	41	Mar. 6, 1917	April 22, 1917
2	2/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	108	Feb. 15, 1911	May 6, 1911
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel.	Thom 2041	1	Nov. 25, 1912	Mar. 13, 1913
2	1-2 a.c.s-r. 1-2 aluminum	8 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041	72	April 26, 1911	Feb. 29, 1912
at distributing stations							
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	15	Feb. 24, 1911	July 10, 1911
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	19	Nov. 1, 1913	Nov. 24, 1913
at junctions							
3	1-cir. 4 copper 2-cir. 2 alum.	10 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041 O.B. 12546	.....	Feb. 24, 1911	July 10, 1911
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	78	Feb. 24, 1911	July 10, 1911
3	2-cir. a.c.s-r. 1-cir. a.c.s-r.	10 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041 O.B. 12546	30	Feb. 15, 1911	May 6, 1911
2	3/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	9	Feb. 15, 1911	May 6, 1911
2	3/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Feb. 15, 1911	May 6, 1911
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Nov. 25, 1912	Mar. 13, 1913
2	1-2 a.c.s-r. 1-2 aluminum	8 c-c. steel	1/4" galv. steel	O.B. 12546 Thom 2041	153	April 26, 1911	Feb. 29, 1912

KENT DISTRICT—SYMBOL N14

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
2	2/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	Oct. 21, 1914	Feb. 1, 1915
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	40	May 9, 1916	Nov. 10, 1916
2	3/0 aluminum	10 c-c. steel	5/16" galv.steel	C.P. 133	7	Oct. 24, 1921	Mar. 1, 1922

* All Browne & Sharpe gauge, except where otherwise noted.
† Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
			Lines terminating					
1485 x 32	101	Pole No. 425	Tilbury dist. sta	35	132	7.41	84	26,400
1468 x 34	126	Pole No. 69	Blenheim dist. sta	35	132	9.52	388	26,400
1466 x 35	127	Pole No. 783	Ridgetown dist. sta	35	132	0.43	20	26,400
1467 x 37	123	Pole No. 676	Thamesville dist. sta	35	132	0.09	6	26,400
1467 x 38	124	Pole No. 676	Bothwell dist. sta	35	132	9.83	407	26,400
1483 x 39	104	Pole No. 849	Wallaceburg dist. sta	40	120	1.18	56	26,400
1470 x 40	105	Pole No. 795	Dresden dist. sta	40	132	0.68	33	26,400
1471 x 41	172	Pole No. 1445A	Oil Springs dist. sta	35	132	1.42	63	26,400
1471 x 42	173	Pole No. 1445A	Brigden dist. sta	35	132	8.88	360	26,400
1471 x 43	131	Pole No. 1445A	Petrolia dist. sta	35	125	6.77	297	26,400
1476 x 45	145	Pole No. 2336	Forest dist. sta	35	132	10.90	444	26,400
1476 x 46	157	Pole No. 2336	Watford dist. sta	35	132	10.84	443	26,400
1477 x 48	.....	Pole No. 2304	Perch dist. sta	35	125	3.56	151	26,400
1485 x 55	.....	Pole No. 425	Fletcher dist. sta	35	150	2.95	118	26,400
			Lines terminating					
14 x 1462	84	Kent trans. sta	Pole No. 41	40	120	0.82	41	26,400
1468 x 65	123	Pole No. 68	Pole No. 470	35	132	9.74	402	26,400
1465 x 66	127	Pole No. 470	Pole No. 783	35	132	7.52	313	26,400
1465 x 67	123	Pole No. 470	Pole No. 676	35	132	4.78	206	26,400
14 x 1468	102	Kent trans. sta	Pole No. 68	40	120	1.48	68	26,400
1468 x 69	103	Pole No. 68	Pole No. 520	40	120	9.98	452	26,400
1469 x 70	105	Pole No. 520	Pole No. 795	40	132	6.71	275	26,400
1470 x 71	131	Pole No. 795	Pole No. 1445A	35	125	15.05	651	26,400
1475 x 74	145	Pole No. 1962	Pole No. 2058	35	132	2.35	96	26,400
1443 x 75	132	Petrolia dist. sta	Pole No. 1962	40	125	4.89	219	26,400
1474 x 76	145	Pole No. 2058	Pole No. 2336	35	132	6.85	278	26,400
1475 x 77	133	Pole No. 1962	Pole No. 2304	35	125	7.92	342	26,400
1469 x 83	104	Pole No. 520	Pole No. 849	40	120	7.32	329	26,400
1462 x 85	101	Pole No. 41	Pole No. 425	35	132	9.57	.....	26,400

NIAGARA SYSTEM—

Lines terminating

N.	L.T.							
1562 x 1	82	Pole No. 55	Windsor mun. sta	45	120	2.27	103	26,400
1562 x 2	83	Pole No. 55	Walkerville mun. sta	40	120	1.30	62	26,400
15 x 1502	.....	Essex trans. sta	Walkerville mun. sta	40	100	2.45	129	26,400
1578 x 18	.....	Pole No. 421	Essex Div. Rly	35	132	1.13	46	26,400

OF LINES

KENT DISTRICT—SYMBOL N14—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at distributing stations							
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	Jan. 13, 1915	Mar. 3, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	23	July 2, 1915	Oct. 20, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	20	June 24, 1915	Nov. 24, 1915
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 133	.....	May 18, 1915	Sept. 14, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	135	June 26, 1915	Aug. 17, 1915
2	1-1/0 aluminum 1-3/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	53	Nov. 6, 1914	Feb. 3, 1915
2	3/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	33	Nov. 3, 1914	Mar. 30, 1915
1	6 galv. iron †	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	July 20, 1917	Dec. 5, 1917
1	6 galv. iron †	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	Aug. 1, 1917	Dec. 6, 1917
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	Aug. 30, 1915	April 6, 1916
1	6 galv. iron †	9 galv. iron †	6 galv. iron †	C.P. 889	84	June 26, 1915	Feb. 7, 1917
1	6 galv. iron †	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	June 9, 1917	Aug. 10, 1917
2	5/16" galv. steel	9 galv. iron †	5/16" galv.steel	C.P. 889	.....	Sept. 19, 1922	Nov. 19, 1922
1	5/16" galv. steel	9 galv. iron †	5/16" galv.steel	C.P. 889	40	Nov. 20, 1922	Dec. 22, 1922
at junctions							
3	1-cir. 2 a.c.s-r. 2-cirs. 2/0 alum.	10 c-c. steel	1/4" galv. steel	C.P. 102	15	Oct. 21, 1914	Feb. 1, 1915
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 133	1	May 18, 1915	Sept. 14, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	.....	June 24, 1915	Nov. 24, 1915
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 133	.....	May 18, 1915	Sept. 14, 1915
3	2-3/0 aluminum 1-1/0 aluminum	10 h-d. cop.	1/4" galv. steel	O.B. 11622 C.P. 133	67	Oct. 28, 1914	Feb. 3, 1915
2	3/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	.....	Oct. 30, 1914	Feb. 3, 1915
2	3/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	.....	Nov. 3, 1914	Mar. 30, 1915
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	83	Aug. 30, 1915	April 6, 1916
1	6 galv. iron †	9 galv. iron †	6 galv. iron †	C.P. 889	.....	June 26, 1915	Feb. 7, 1917
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	81	Mar. 1, 1916	Nov. 10, 1916
1	6 galv. iron †	9 galv. iron †	6 galv. iron †	C.P. 889	.....	June 26, 1915	Feb. 7, 1917
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	April 6, 1916	Nov. 10, 1916
2	1-cir. 1/0 alum. 1-cir. 3/0 alum.	10 h-d. cop. †	1/4" galv. steel	C.P. 133	.....	Nov. 6, 1914	Feb. 3, 1915
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	Jan. 13, 1915	Mar. 3, 1915

ESSEX DISTRICT—SYMBOL N15

at customers

2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	July 31, 1919	Sept. 18, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	June 2, 1914	Sept. 6, 1914
2	500,000 c.m. aluminum	10 c-c. steel	None	O.B. 12464	1	Nov. 7, 1923	Jan. 24, 1924
1	2 a.c.s-r.	None	None	C.P. 889	.....	Sept. 7, 1922	Oct. 25, 1922

* All Browne & Sharpe gauge, except where otherwise noted.
† Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
1569 x 33	165	Pole No. 333	Can. Salt Co. dist. sta.	40	132	0.41	18	26,400
1569 x 39	.....	Pole No. 333	Sandwich dist. sta....	45	132	1.08	45	26,400
1577x38*a*	.....	Pole No. 383	Belle River dist. sta...	.....	.....	4.60	184	26,400
1563 x 78	188	Pole No. 231	Canard River dist. sta.	35	160	6.00	190	26,400
1572 x 42	190	Pole No. 642	Amherstburg dist. sta.	35	160	2.30	78	26,400
1572 x 43	191	Pole No. 642	Harrow dist. sta.....	35	160	12.75	401	26,400
1574 x 44	193	Pole No. 1374	Kingsville dist. sta....	35	160	0.50	7	26,400
1575 x 45	195	Pole No. 1412	Leamington dist. sta..	35	160	7.50	289	26,400
1576 x 46	187	Pole No. 1605	Cottam dist. sta.....	35	160	0.80	22	26,400
1576 x 47	197	Pole No. 1605	Essex dist. sta.....	35	160	4.70	157	26,400
								Lines terminating
1563 x 69	185	Pole No. 231	Pole No. 333.....	40	132	2.39	101	26,400
15x1563*b*	185	Essex trans. sta.....	Pole No. 231.....	40	132	5.30	231	26,400
1578 x 72	189	Canard River dist. sta..	Pole No. 642.....	35	160	7.25	220	26,400
1543 x 74	192	Harrow dist. sta.....	Pole No. 1374.....	35	160	9.70	334	26,400
1574 x 75	194	Pole No. 1374.....	Pole No. 1412.....	35	160	0.70	38	26,400
1575 x 76	196	Pole No. 1412.....	Pole No. 1605.....	35	160	5.20	193	26,400
15 x 1562	81	Essex trans. sta.....	Pole No. 55.....	45	120	1.10	55	26,400
15x1577*a*	.....	Essex trans. sta.....	Pole No. 383.....	.....	.....	9.38	383	26,400

a N15 x 1577 and N1577 x 38 carried on telephone pole N14 x 15.
b N15 x 1563 1-cir. 2 copper erected only Feb. 1, 1919.

NIAGARA SYSTEM—

N.	L.T.							
								Lines terminating
1671 x 11	.....	Jct. Pole No. 74.....	New Mimico mun. sta.	50	.....	0.06	4	13,200
1663 x 3	34	Jct. Pole No. 250.....	Weston mun. sta.....	40	120	1.62	75	13,200
1667 x 7	110B	Jct. Pole No. 33.....	Asylum Brick Yard...	Not owned by H. E.P.C.				.....
								Lines terminating
1666 x 31	155	Jct. Pole No. 122.....	Etobicoke dist. sta....	40	125	0.21	10	13,200
1661 x 32	51	Jct. Pole No. 332.....	Mimico.....	40	120	0.46	18	13,200
1663 x 34	107	Jct. Pole No. 250.....	Woodbridge dist. sta..	35	132	6.44	276	13,200

OF LINES

ESSEX DISTRICT—SYMBOL N15—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at distributing stations							
2	1/0 copper	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	July 10, 1917	Nov. 9, 1917
1	2 a.c.s-r.	9 galv. iron †	None	C.P. 889	.....	July 4, 1924	Aug. 5, 1924
1	5/16" galv. steel	None	None	C.P. 889	.....	Oct. 4, 1922	Dec. 5, 1922
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	69	April, 1914	Nov., 1914
2	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	July, 1913	Nov., 1914
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	July, 1913	Nov., 1914
2	1/0 aluminum	6 a.c.s-r.	None	No. 9416	.....	July, 1913	Nov., 1914
1	1/0 aluminum	None	None	No. 9416	.....	May, 1915	Aug., 1915
1	1/0 aluminum	None	None	No. 9416	.....	Aug., 1915	Oct., 1915
1	1/0 aluminum	6 a.c.s-r	None	No. 9416	.....	Aug. 1915	Sept., 1915
at junctions							
2	1/0 copper	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	July 10, 1917	Nov. 9, 1917
3	1/0 cop., 2-cir. 2 bare str., 1-cir. copper	9 galv. iron †	1/4" galv. steel	C.P. 889	39	July 10, 1917	Nov. 9, 1917
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	May, 1914	Nov. 1914
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	June, 1913	Nov., 1914
1	1/0 aluminum	6 a.c.s-r.	None	8 1/2" x 10" similar to O.B.	.....	July, 1915	Aug., 1915
1	1/0 aluminum	6 a.c.s-r.	None	No. 9416	.....	Aug., 1915	Sept., 1915
4	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	4	July 28, 1914	Sept. 6, 1914
1	1/0 a.c.s-r.	None	None	C.P. 889	.....	Oct. 4, 1922	Dec. 5, 1922

YORK DISTRICT—SYMBOL N16

at customers

2	4 copper	9 galv. iron	None	.....	.....	Mar. 21, 1924	Mar. 27, 1924
2	1-3/0 a.c.s-r. 1-2 aluminum	8 c-c. steel	1/4" steel	O.B.12546 Thom 2041	75	April 19, 1911	July 24, 1911
.....	.....	.....	.....	.....	.....	.....	.....

at distributing stations

2	1/0 copper	9 galv. iron †	9/32" steel	O.B. 11622	8	Feb. 9, 1917	Oct. 10, 1919
1	2 aluminum	8 c-c. steel	1/4" steel	Thom 2041	18	.....	.....
1	1/0 aluminum	10 c-c. steel	1/4" steel	C.P. 136	197	Sept. 25, 1914	Dec. 2, 1914

* All Browne & Sharpe gauge except where otherwise noted.
† Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
1631 x 61	36	Etobicoke dist. sta.....	Jct. Pole No. 332.....	45	120	0.11	6	13,200
16x1663*a*	.....	York H. T. sta.....	Jct. Pole No. 250.....	40	120	5.49	250	13,200
1671 x 66	155	Mimico Jct.....	Jct. Pole No. 122.....	40	125	0.99	50	13,200
16 x 1671	155	York H. T. sta.....	Jct. Pole No. 74.....	40	125	1.60	74	13,200

a From York trans. sta. to Pole No. 82; tel. line consists of 1 cir. No. 10 c-c. steel and 1 cir.

THOROLD SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
I. 51 x 1	L.T.	Jct. Pole No. 372 O.P. Co. lines	Thorold dist. sta.....	35	120	1.04	46	12,000

ONTARIO POWER COMPANY—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
							towers	
2 x 71*d*	1 & 2	O.P.Co. trans. sta.....	Nia. River crossing...	50	550	6.01	73	60,000
			No. 1 Trunk...					
			No. 2 Trunk...	50	550	6.01	72	60,000
							poles	
15 x 2	22 & 23	Tor. Power Co.....	O.P.Co. trans. sta....	40	120	1.10	59	12,000
2 x 261	C. & D.	O.P.Co. dist. sta.....	Pole No. 18 (Allen & Murray).....	40	120	0.25	18	12,000
2 x 264	A. & B.	O.P.Co. dist. sta.....	Pole No. 355 (Pt. Robinson).....	35	120	6.56	355	12,000
264 x 76	A. & B.	Pole No. 355 (Pt. Robinson).....	Pole No. 417 (Glass Co.).....	35	120	1.48	62	12,000
276 x 78	A. & B.	Pole No. 417 (Glass Co.)	Pole No. 441 (Beaver Co.).....	35	120	0.53	24	12,000
278 x 79	A. & B.	Pole No. 441 (Beaver Co.).....	Pole No. (J. & K.) ...	35	120	0.72	31	12,000
276 x 16*b*	A. & B.	Pole No. 417 (Glass Co.)	Pilkington Glass Co...	35	120	0.04	1	12,000
278 x 18	A. & B.	Pole No. 441 (Beaver Co.).....	Beaver Board Co.....	35	120	0.04	2	12,000
264 x 4	A. & B.	Pole No. 355 (Pt. Robinson).....	Pt. Robinson Steel....	35	120	2.60	123	12,000
270 x 10	C. & D.	Pole No. 136 (Ramapo Co.).....	Ramapo Iron Works..	35	120	0.80	36	12,000
2 x 63	E. & F.	O.P.Co. trans. sta.....	Pole No. 590 (12 & 30-kv.).....	35	120	12.50	590	30,000
63 x 72	E. & F.	Pole No. 590 (12 & 30-kv.).....	Pole No. 621 (Electro Metals).....	50	100	0.75	22	30,000

NOTE: For inter-connected lines at 12,000 volts, see Niagara System, Niagara District—Symbol NI·

b A276 x 16 tap owned by Pilkington Glass Co.

d Second circuit of No. 12 iron tel. carried on N160 x 75, 175 x 69, 169 x 73, then on A2 x 71 to

OF LINES

YORK DISTRICT—SYMBOL N16—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at junctions							
2	1-2 a.c.s-r. 1-2 aluminum	8 c-c. steel	1/4" steel	Thom 2041	.....	April 26, 1911	Feb. 29, 1912
2	1-2 aluminum	8 c-c. steel	1/4" steel	O.B. 12546		April 19, 1911	July 24, 1911
	1-3/0 a.c.s-r.	10 c-c. steel	5/16" steel	Thom 2041	15	Aug. 3, 1922	Nov. 19, 1922
2	1/0 copper	9 galv. iron †	9/32" steel	O.B. 11622	26	Feb. 9, 1917	Oct. 10, 1919
2	1/0 copper	9 galv. iron †	9/32" steel	O.B. 11622	74	Feb. 9, 1917	Oct. 10, 1919

of No. 6 a.c.s-r.

SYMBOL "I"

1	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	1912

SYMBOL "A"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	820,000 c.m. al.	10 copper....	None	C.P. 2325 C.P. 1530 Thom 14/0	.....	1904	July 22, 1906
1	820,000 c.m. al.	.....	None	C.P. 2133	.....	Re-insul. 1904	Sept., 1924 July 22, 1906
2	500,000 c.m. al.	9 galv. iron †	None	Vic. 407	.....	1915	Oct., 1915
2	345,000 c.m. al.	None	None	Vic. 407	.....	.....	Nov. 5, 1910
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	43	.....	Oct. 12, 1906
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	35	.....	.....
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	24	.....	.....
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	17	.....	Dec. 11, 1913
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	.....	.....	Oct. 12, 1906
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	.....	.....	Dec. 11, 1913
1	3 copper	9 galv. iron †	None	Vic. 407	.....	.....	Oct. 12, 1906
1	3 copper	None	None	Vic. 407	.....	.....	July 14, 1907
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 2872	13	Built 1908 reinsul. 1912	Sept. 28, 1913
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 2872	.....	Built 1908 reinsul. 1912	Sept. 28, 1913

*All Browne & Sharpe gauge except where otherwise noted. †Birmingham wire gauge.

Niagara river crossing.

DESCRIPTION

ONTARIO POWER COMPANY—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
72 x 3*a*	E. & F.	Pole No. 621 (Electro Metals)	Pt. Colborne dist. sta.	35	100	5.50	313	30,000
72 x 12	E. & F.	Pole No. 621 (Electro Metals)	Electro Metals Co.	50	120	0.04	1	30,000
261 x 81	G. & H.	Pole No. 18 (Allen & Murray)	Pole No. 61	35	120	1.15	61	12,000
281 x 72	G. & H.	Pole No. 61	Pole No. 579 (Electro Metals)	30	120	11.77	518	12,000
272 x 74	G. & H.	Pole No. 579 (Electro Metals)	Pole No. 591 (Page Hersey)	35	120	0.22	12	12,000
274 x 45	G. & H.	Pole No. 591 (Page Hersey)	Dain Manuf. Co.	35	120	1.25	64	12,000
274 x 14	G. & H.	Pole No. 591 (Page Hersey)	Page Hersey Co.	35	120	0.20	9	12,000
272 x 12	G. & H.	Pole No. 579 (Electro Metals)	Electro Metals Co.	45	120	0.36	17	12,000
272 x 73	G. & H.	Pole No. 579 (Electro Metals)	Pole No. 586 (Can. Steel)	35	120	0.13	7	12,000
273 x 13	G. & H.	Pole No. 586 (Can. Steel)	Can. Steel Foundry	35	120	0.25	11	12,000
273 x 80	G. & H.	Pole No. 586 (Can. Steel)	Pole No. 589 (Empire Cotton)	45	120	0.08	3	12,000
280 x 20	G. & H.	Pole No. 589 (Empire Cotton)	Empire Cotton Co.	35	120	1.30	71	12,000
15 x 81	G. &H.	Tor. Power Co. gen. sta.	Pole No. 61	35	120	0.70	31	12,000
2 x 279	J. & K.	O.P. Co. trans. sta.	Pole No. (A. & B.)	35	120	6.70	327	12,000
277 x 63*c*	J. & K.	Pole No. 329 (Con. Red)	Pole No. 372 (Thorold)	35	120	0.94	43	12,000
279 x 77	J. & K.	Pole No. (A. & B.)	Ont. Paper structure	35	120	0.13	6	12,000
263 x 38	J. & K.	Pole No. 372 (Thorold)	Merritton sta.	35	120	2.20	108	12,000
277 x 17	J. & K.	Pole No. 329 (Con. Red)	Con. Reduction Co.	35	120	0.44	17	12,000
2 x 209	L. & M.	O.P. Co. dist. sta.	Amer.Cyan. Co., plant No. 1	35	120	2.60	137	12,000
2 x 269	O. & P.	O.P. Co. dist. sta.	Pole No. 80 (Nia. Falls	35	120	1.40	80	12,000
269 x 9	O. & P.	Pole No. 80 (Nia. Falls)	Amer. Cyan. Co., plant No. 2	35	120	1.00	52	12,000
2 x 281	.....	O.P. Co. dist. sta.	Pole No. 72 (Montrose	35	120	1.40	72	12,000
281 x 6	.....	Pole No. 72 (Montrose)	Montrose sub. sta.	35	120	1.20	53	12,000
281 x 65	R. & S.	Pole No. 72 (Montrose)	Pole No. 195 (Chippawa)	35	120	2.40	123	12,000
3 x 334	W. & X.	Pt. Colborne sub sta.	Cork Co.	40	120	0.18	8	12,000
363 x 303	Y. & Z.	Pole No. 12 (Can. Cement)	Can. Cement Co.	40	120	1.00	55	12,000
3 x 363	Y. & Z.	Pt. Colborne sub sta.	Pole No. 12 (Can. Cement)	40	120	0.15	12	12,000
2 x 201	.....	O.P. Co. trans. sta.	H.E.P.C. (cable)	.....	.....	.....	.....	12,000
2 x 207	.....	O.P. Co. dist. sta.	Nia. Falls W.W. (cable)	.....	.....	.....	.....	12,000

a A72 x 3 line owned by Dept. of Railways & Canals.
c A277 x 63 underground cable from A277 to Welland Canal.

OF LINES

SYMBOL "A"—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
2	211,950 c.m. al.	12 galv. iron†	None	.....	.....	.....	.....
2	2/0 copper	12 galv. iron†	None	Vic. 2872	.....	Built 1908 reinsul. 1912	Sept., 1913
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Nov. 5, 1910
2	345,000 c.m. al.	12 glav. iron†	None	Vic. 407	.....	.....	Nov. 5, 1910
2	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	Aug. 16, 1913
1	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	Aug. 16, 1913
2	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	1911
2	3 copper, 1-cir., 2/0 cop., 1-cir.	None	None	Vic. 407	.....	.....	.....
2	345,000 c.m. al., 1-cir. 173,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	.....
2	3 copper	None	None	Vic. 407	.....	.....	1906
2	173,000 c.m. al., 1-cir. 345,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	.....
2	173,000 c.m. al., 1-cir. 345,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	May 3, 1913
2	345,000 c.m. al.	None	None	Vic. 407	23	.....	Apr. 11, 1909
2	345,000 c.m. al. 500,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Sept. 10, 1912
2	3 copper 345,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	May 6, 1908
2	190,000 c.m.cop	10 cop., 2-cir.	None	C.P. 793	.....	.....	July 31, 1924
2	173,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Oct. 6, 1912
2	6 copper	12 galv. iron†	None	Vic. 407	.....	.....	May 6, 1908
2	500,000 c.m. al.	None	None	Vic. 407	.....	.....	June 24, 1913
2	500,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Mar. 31, 1914
2	500,000 c.m. al.	None	None	Vic. 407	.....	.....	Mar. 31, 1914
2	173,000 c.m. al.	None	None	Vic. 407	48	.....	Apr. 11, 1909
2	336,400 c.m. a.c.s-r.	9 galv. iron†	None	O.B. 12546	.....	.....	Dec. 8, 1919
2	173,000 c.m. al.	9 galv. iron†	None	O.B. 12546	9	.....	July 5, 1910
1	173,000 c.m. al.	None	None	Vic. 407	.....	.....	Nov. 12, 1911
2	2/0 copper	9 galv. iron†	None	Vic. 407	20	.....	May 1, 1908
2	2/0 copper	9 galv. iron†	None	Vic. 407	.....	.....	May 1, 1908
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....

For inter-connected lines at 12,000 volts see Niagara System, Niagara District—Symbol N1.
* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

DESCRIPTION

TORONTO POWER COMPANY—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
1 x 24*b*	.....	Niagara gen. sta.....	Can. Nia. Power Co..	.....	.....	0.23	.....	.....
2 x 25	.....	Niagara trans. sta.....	Ont. Power Co.....	45 towers	150	0.19	10	12,000
								Lines terminating
B1 x 2	.....	Nia. Falls gen. sta.....	Nia. Falls trans. sta...	.....	.....	0.38	.....	12,000
B50 x 6*a*	.....	Fonthill inter. switch...	Welland trans. sta....	45	150	7.49	242	60,000
B50 x 5	.....	Fonthill inter. switch...	Thorold trans. sta....	45	150	4.74	172	60,000
B82 x 3	.....	Wiltshire ave. jct.....	Davenport trans. sta..	45	300	2.50	50	90,000
				45	300	2.50	51	110000
								Lines terminating
B2 x 50	one	Nia. Falls trans. sta....	Fonthill inter. switch	40 towers	340	9.00	151	60,000
B2 x 51	r. of w.	Nia. Falls trans. sta....	Oxley inter. switch....	53	500	10.8	91	90,000
B51x66*d*	.....	Oxley inter. switch....	Islington jct.....	53	500	61.4	601	90,000
B51x66		Oxley inter. switch....	Islington jct.....	40	350	63.2	956	60,000
B66x82	.....	Islington jct.....	Wiltshire ave. jct.....	53	600	4.5	73	90,000
B66x82*e*		Islington jct.....	Wiltshire ave. jct.....	40	300	4.5	59	110,000

a 50 x 6 line carried on steel towers from Fonthill Inter. switch to tower No. 17—0.97 miles, 242
c 1 x 2 underground cables, 21 cables of 500,000 c.m. copper.
d 3-190,000 c.m. cables removed from mileage 10.8 (Oxley) to mileage 40.0 (Gages), and from Two 60,000-volt circuits across Burlington Beach have been insulated for 110,000 volts and
e Towers and r. of w. only. For conductor, see N66 x 82 and N82 x 31.
For inter-connected lines, see Niagara System, 110,000-volt, steel-tower lines.

TORONTO

								Lines terminating
368 x 1	.....	Don. jct., Pole No. 336.	T.H.E.S.,WinchesterSt	.....	Right	of way	only.	.....
332 x 3*a*	.....	Keele St. dist. sta.....	Tor.Sub. Rly.,Islington	40	350	3.50	.....	12,000
364 x 4	.....	Kipling ave. jct.....	Goodyear Co.....	40	120	3.09	146	12,000
366 x 35	.....	Bayview jct, 243.....	Can. Wire Co.....	45	120	0.81	36	12,000
.....	.....	C.WireCo.,PoleNo.277	Durant Motor Co....	45	100	0.13	7	12,000
3 x 359*b*	.....	Toronto trans. sta.....	Bathurst Arrest.House	.....	.....	.....	.....	12,000
								Lines terminating
3 x 332*c*	.....	Toronto trans. sta.....	Keele St. dist. sta....	40	300	3.50	.....	12,000
358 x 32	.....	Campbell Av. Arr. Hse.	Keele St. dist. sta....	45	100	1.05	53	12,000
368 x 38	.....	Don. jct., Pole No. 336.	Blantyre dist. sta.....	45	110	5.54	277	12,000
304 x 69	.....	Goodyear Co.....	L.S. Road terminus...	40	100	0.55	30	12,000

a 332 x 3—Towers on this section included in 82 x 3 and 66 x 82.
b 3 x 359—Underground cable, conduit owned by T.H.E.S.
c 3 x 332—60,000-volt steel-tower line operated at 120-volts, 110-kv. Towers included on 82 x 3.

OF LINES

SYMBOL "B"—HIGH-TENSION LINES

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
12	duct run.	.....	.....	.....	.....	.....	1912
3	2-cir. 115 000 c.m. copper 1-cir. 190 000 c.m. copper	None	None	C.P. 793	.....	.....	1917
at transformer stations							
.....	50,000 c.m. cop.	U.G. 48 ducts	.....	.....	.....	.....	1905
1	115,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 492	.....	.....	1916
1	190,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 492	.....	.....	1917
2	190,000 c.m.cop	U.Gd. cable	.....	C.P. 1530	.....	.....	1913
2				(1916-7) C.P. 3880			
at junctions							
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 492	.....	1904	1905
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 492	.....	1912	1913
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 1530	.....	1912	1913
2	190,000 c.m.cop	None	3/8" galv. steel	Old Niagara type	.....	1904	1905
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 1530	.....	1912	1913
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 3880	.....	.....	1924

wood poles and 17 steel towers. *b* 1 x 24 underground cables property of Buffalo General Electric Co.

mileage 45.0 (Burlington) to mileage 71.5 (Kipling ave.).
have been temporarily used for Niagara System.

DISTRICT

at customers

.....	.....	.....	.....	.....	.....	.....	.....
1	190,000 c.m.cop	None	3/8" galv. steel	60,000 volts C.P. 793	.....	.....	1905
1	190,000 c.m.cop	None	None	C.P. 793	26	.....	1921
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	23	.....	1916
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	.....	.....	1922
2	2/0 copper	.....	.....	.....	.....	.....	1913
at distributing stations							
1	190,000 c.m.cop	None	None	60,000 volts C.P. 793	.....	.....	1905
2	115,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	49	.....	1912
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	.....	.....	1912
1	190,000 c.m.cop	None	None	C.P. 793	.....	.....	1921

For inter-connected Tor. Power Co. lines purchased by Commission, see page 562.
* All Browne & Sharpe gauge, except where otherwise noted.

DESCRIPTION

TORONTO POWER COMPANY—

TORONTO

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
B.								
303 x 64*a*	.....	Tor. Sub. Rly. Islington.	Kipling ave. jct.....	40	300	1.00	.....	12,000
359 x 65	.....	Bathurst Arrest. House.	Eglinton ave. jct. 182..	45	100	3.39	182	12,000
365 x 66	.....	Eglinton ave. jct. 182..	Bayview jct. 243.....	45	100	1.29	61	12,000
366 x 68	.....	Bayview jct. 243.....	Don. jct. 336.....	45	110	1.76	94	12,000

a For towers, see 50 x 66, 60-kv. towers one-circuit operated at 12-kv.

THOROLD

								Lines terminating
5 x 503*b*	.....	Thorold trans. sta.....	Nia. St. C. & Tor. Rly.	45	100	0.49	26	12,000
5 x 501	.....	Thorold trans. sta.....	Exolon Co.....	40	125	0.15	8	12,000
5 x 502*a*	.....	Thorold trans. sta.....	Riordon Co.....	45	150	2.05	80	12,000
502 x 6	.....	Riordon Co.....	Inter-LakeTissueMills	40	150	0.62	20	12,000
								Lines terminating
5 x 564	.....	Thorold trans. sta.....	Welland Canal.....	40	150	1.14	45	12,000
263 x 77	.....	Mitchell inter. switch..	Ont. Paper Co.inter sw	40	150	4.72	192	12,000

a 5 x 502—1-circuit 190,000 c.m. copper to pole No. 26, and 1-circuit 115,000 c.m. copper from pole
b 5 x 503—Line carried on Niagara St. C. and Toronto Rly. poles on railway right-of-way.

NIAGARA

								Lines terminating
263 x 3*a*	.....	Mitchell inter. switch..	Nia. St.C.&Tor. Rly.. Nia.Falls&Nat.A.Co.	45	150	1.92	74	12,000
2 x 201*b*	.....	Niagara trans. sta.....	Aloxite Co.....	45	125	0.59	26	12,000
								Lines terminating
2 x 263	.....	Niagara trans. sta.....	Mitchell inter. switch .	40	175	3.74	127	12,000

a 263 x 3, 1-circuit of 190,000 c.m. copper to National Abrasive Co. and 1-circuit of 115,000 c.m.
b 2 x 201, carried on own poles from Niagara trans. sta. to pole No. 9=0.22 miles, then on Can. =0.08 miles. Total, 0.59 miles.

WELLAND

								Lines terminating
6 x 601	73A	Welland trans. sta.....	Electro Metals Co....	45	100	0.42	20	12,000
6 x 601	71 & 72	Welland trans. sta.....	Electro Metals Co....	45	125	0.35	17	12,000

OF LINES
SYMBOL "B"—Continued
DISTRICT—Continued

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at junctions							
1	190,000 c.m.cop	None	3/8" galv. steel	C.P. 793	.....	.....	1905
2	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	85	.....	1910
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	16	.....	1912
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	68	.....	1912
DISTRICT							
at customers							
1	115,000 c.m.cop	10 copper	None	C.P. 793	.....	.....	1917
1	115,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	.....	.....	1917
1	190,000 c.m.cop 115,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	.....	.....	1917
1	115,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	.....	.....	1917
at junctions							
2	190,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	.....	.....	1917
2	190,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	18	.....	1917

No. 26 to Riordon Co.

DISTRICT
at customers

2	1-cir. 190,000 c.m. copper 1-cir. 115,000 c.m. copper	14 c-c. steel	None	C.P. 793	.....	.....	1918
1	190,000 c.m.cop	None	3/8" galv. steel	C.P. 793	.....	.....	1917
at junctions							
2	190,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	.....	.....	1918

copper to Niagara, St. C. and Toronto Rly.
Niagara Power Co. poles No. 10 to 23=0.29 miles, then on own poles from No. 24 to 26

DISTRICT
at customers

1	190,000 c.m.cop	None	None	C.P. 793	.....	.....	1916
2	190,000 c.m.cop	10 copper	None	C.P. 793	.....	.....	1916

* All Browne & Sharpe gauge, except where otherwise noted.

DESCRIPTION
GEORGIAN BAY SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
								Lines terminating
S. 51 x 1	S.L.	Pole No. 586.....	Midland dist. sta.....	40	100	2.40	117	22,000
1 x 2	17	Midland dist. sta.....	Penetang dist. sta....	40	120	3.03	143	22,000
72 x 4	22	Pole No. 1590.....	Barrie dist. sta.....	40	120	1.57	64	22,000
60 x 5	9	Pole No. 1786.....	Collingwood dist. sta..	40	120	12.04	525	22,000
56 x 6	2	Pole No. 193.....	Coldwater dist. sta....	40	120	1.16	55	22,000
57 x 7	4	Pole No. 903.....	Elmvale dist. sta.....	40	120	0.42	19	22,000
20 x 9	23	Big Chute gen. sta.....	Swift Rapid gen. sta..	30	120	7.50	328	22,000
60 x 10	8	Pole No. 1786.....	Stayner dist. sta.....	40	120	1.50	69	22,000
69 x 19	13	Pole No. 188.....	Victoria Harbor dist.. sta.	40	120	1.52	82	22,000
71 x 21	20	Pole No. 401.....	C.P.R. elev. dist. sta..	35	125	1.33	58	22,000
72 x 22 *a*	21	Pole No. 1590.....	Camp Borden dist. sta.	35	132	14.76	604	22,000
84 x 32	29	Pole No. 2701.....	Alliston dist. sta.....	40	125	1.82	86	22,000
83 x 33	32	Pole No. 2984.....	Beeton dist. sta.....	40	125	1.76	84	22,000
83 x 34	31	Pole No. 2984.....	Tottenham dist. sta...	40	125	3.61	177	22,000
87 x 35	27	Pole No. 2282.....	Cookstown dist. sta...	40	125	2.24	98	22,000
86 x 36	35	Pole No. 2021.....	Thornton dist. sta....	40	125	1.85	81	22,000
62 x 37	34	Pole No. 2451.....	Bradford dist. sta.....	40	125	7.25	319	22,000
51 x 11	.....	Pole No. 586.....	Tiffin Elev. dist. sta...	40	125	0.41	17	22,000
54 x 23	.....	Pole No. 1110.....	Phelpston dist. sta....	40	120	1.69	75	22,000
								Lines terminating
20 x 52	11	Big Chute gen. sta.....	Waubaushene sw. sta.	35	120	12.00	504 527	22,000
57 x 54	5	Pole No. 903.....	Pole No. 1110.....	40	120	4.57	207	22,000
52 x 56	1	Waubaushene sw. sta..	Pole No. 193.....	40	120	3.68	163	22,000
56 x 57	3	Pole No. 193.....	Pole No. 903.....	40	120	15.86	711	22,000
4 x 61	24	Barrie dist. sta.....	Pole No. 1834.....	40	125	3.88	180	22,000
87 x 62	33	Pole No. 2282.....	Pole No. 2451.....	40	125	3.87	169	22,000
52 x 69	12	Waubaushene sw. sta..	Pole No. 188.....	40	100	3.59	188	22,000
69 x 71	14	Pole No. 188.....	Pole No. 401.....	40	100	4.03	213	22,000
54 x 72	6	Pole No. 1110.....	Pole No. 1590.....	40	120	10.76	480	22,000
84 x 83	30	Pole No. 2701.....	Pole No. 2984.....	40	125	6.30	283	22,000
35 x 84	28	Cookstown dist. sta....	Pole No. 2701.....	40	125	7.35	321	22,000
61 x 86	25	Pole No. 1834.....	Pole No. 2021.....	40	125	4.28	187	22,000
86 x 87	26	Pole No. 2021.....	Pole No. 2282.....	40	125	5.99	261	22,000
71 x 51	16	Pole No. 401.....	Pole No. 586.....	40	100	3.46	185	22,000
23 x 60	7	Phelpston dist. sta.....	Pole No. 1786.....	40	120	13.38	601	22,000

a 72 x 22—Line owned by Dept. of Militia and Defence.

OF LINES
SEVERN DIVISION—SYMBOL "S"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
2	1-cir. 2/0 al. 1-cir. a.c.s-r.	1-cir. 12 galv. iron† 1-cir. 10 c-c. steel	1/4" galv. steel	C.P. 889 Pittsburg	116	April 11, 1917	May 22, 1917
2	2 str. copper	10 c-c. steel	1/4" galv. steel	C.P. 889	12	June 7, 1911	July 18, 1911
2	2/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	42	Nov. 6, 1912	April 6, 1913
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889 Thom 2111	1	Nov. 1, 1912	Feb. 24, 1913
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Sept. 20, 1912	Feb. 24, 1913
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Feb. 1, 1913	May 27, 1913
1	2 aluminum	10 copper	5/16" galv. steel	O.B. 9410	.....	.....	.....
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Jan. 24, 1913	Feb. 25, 1913
1	2 aluminum	12 galv. iron†	1/4" galv. steel	C.P. 188 Pittsburg	.....	.....	.....
2	1/0 aluminum	9 galv. iron†	1/4" galv. steel	O.B. 12547	.....	Feb. 29, 1916	July 24, 1916
1	6 m.h-d. copper	9 galv. iron†	6 galv. iron†	C.P. 136	.....	May 30, 1916	June 29, 1916
1	125,000 c.m. a.c.s-r.	9 galv. iron †	9/32" galv. steel	C.P. 889	.....	Dec. 8, 1917	May 23, 1918
1	5/16" galv. steel	9 galv. iron †	9/32" galv. steel	C.P. 889	.....	Feb. 28, 1918	July 26, 1918
1	5/16" galv. steel	9 galv. iron †	9/32" galv. steel	C.P. 889	.....	Jan. 30, 1918	Sept. 9, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 889	10	Nov. 8, 1917	April 25, 1918
1	5/16" galv. steel	9 galv. iron †	9/32" galv. steel	C.P. 889	.....	June 15, 1918	Oct. 16, 1918
1	5/16" galv. steel	9 galv. iron †	9/32" galv. steel	C.P. 889	.....	Mar. 19, 1918	Sept. 16, 1918
2	2 a.c.s-r	9 galv. iron †	5/16" galv. steel	C.P. 889	.....	Aug. 25, 1922	Sept. 15, 1922
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889 Thom 2111	.....	Oct. 23. 1912	Feb. 24, 1913
at junctions							
2	4/0 aluminum 4/0 a.c.s-r.	9 galv. iron † 12 galv. iron †	1/4" galv. steel	Thom 2111	49	.....	1915
2	4/0 aluminum	9 galv. iron † 10 c-c. steel	1/4" galv. steel	Thom 2111	20	Oct. 20, 1912	Feb. 24, 1913
2	4/0 aluminum	9 galv. iron † 10 c-c. steel	1/4" galv. steel	Thom 2111	2	Sept. 20, 1912	Feb. 24, 1913
2	4/0 aluminum	9 galv. iron † 10 c-c. steel	1/4" galv. steel	Thom 2111	24	Sept. 25, 1912	Feb. 24, 1913
1	125,000 c.m. a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	Sept. 13, 1917	April 25, 1918
1	5/16" galv. steel	9 galv. iron †	9/32" galv. steel	C.P. 889	.....	May 29, 1918	Sept. 16, 1918
2	1/0 a.c.s-r. 2/0 aluminum	12 galv. iron †	.....	Pittsburg O.B. 12547	14	April 1, 1916	July 24, 1916
2	2/0 aluminum 1/0 a.c.s-r.	12 galv. iron †	.....	C.P. 133 Pittsburg	.....	Mar. 7, 1916	July 24, 1916
2	2/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Nov. 6, 1912	April 6, 1913
1	5/16" galv. steel	9 galv. iron †	9/32" galv. steel	C.P. 889	.....	Jan. 2, 1918	July 26, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	Nov. 16, 1917	May 23, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	Oct. 6, 1917	April 25, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	Oct. 20, 1917	April 25, 1918
2	1-cir. 2/0 alum. 1-cir. 1/0 a.c.s-r.	1-cir. 12 galv. iron† 1-cir. 10 c-c. steel	1/4" galv. steel	C.P. 889 Pittsburg O.B. 12547	.....	April 11, 1917	May 22, 1917
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889 Thom 2111	16	Oct. 23, 1912	Feb. 24, 1913

* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

DESCRIPTION

GEORGIAN BAY SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
E.	E.F.L.							
57 x 29	.....	Pole No. 1007.....	Dur. Russill dist. sta..	35	.....	0.05	2	22,000
65 x 2	2	Pole No. 1141A.....	Owen Sound dist. sta..	40	125	5.28	227	22,000
52 x 3	1	Pole No. 316.....	Chatsworth dist. sta..	40	125	15.27	658	22,000
17 x 4	8	Elmwood dist. sta.....	Chesley dist. sta.....	40	125	6.07	259	22,000
55 x 5	9	Pole No. 297.....	Dundalk dist. sta.....	40	125	11.44	499	22,000
57 x 7	4	Pole No. 971.....	Durham dist. sta.....	40	125	0.17	14	22,000
54 x 28	11	Pole No. 1491.....	Hanover switch sta...	40	125	0.76	33	22,000
59 x 9	5	Pole No. 1326.....	Mt. Forest dist. sta...	40	125	7.49	336	22,000
5 x 10	10	Dundalk dist. sta.....	Shelburne dist. sta....	40	125	13.12	565	22,000
64 x 11	20	Pole No. 373.....	Collingwood dist. sta..	35	125	15.86	697	22,000
62 x 12	17	Pole No. 1987.....	Orangeville dist. sta...	30	130	0.36	21	22,000
63 x 13	6	Pole No. 1798.....	Grand Valley dist. sta.	35	132	8.98	384	22,000
65 x 15	15	Pole No. 1141A.....	Kilsyth dist. sta.....	40	125	4.80	206	22,000
54 x 17	8	Pole No. 1491.....	Elmwood dist. sta....	40	125	4.99	214	22,000
55 x 18	4	Flesherton Pole 297....	Priceville dist. sta....	40	125	5.71	243	22,000
74 x 25	.....	Kinloss Pole No. 2393..	Kincardine dist. sta...	35	132	12.71	517	22,000
74 x 24	.....	Kinloss Pole No. 2393..	Holyrood dist. sta....	35	132	6.20	224	22,000
72 x 22	.....	Wingham Pole No. 2759	Wingham dist. sta....	35	132	4.11	170	22,000
71 x 21	.....	Teeswater Pole No. 2172	Teeswater dist. sta...	35	132	7.01	284	22,000
76 x 26	.....	Walkerton Quarry, 1977	Walkerton Quarry sta.	35	132	0.25	12	22,000
30 x 31	.....	Harriston dist. sta.....	Mt. Forest dist. sta...	35	175	10.54	331	26,400
64 x 14	.....	Pole No. 373.....	Meaford dist. sta.....	35	175	14.50	457	22,000
								Lines terminating
1 x 52	1	Eugenia gen. sta.....	Pole No. 316.....	40	125	7.28	316	22,000
58 x 54	7	Pole No. 964.....	Pole No. 1491.....	40	125	12.11	527	22,000
1 x 55	3	Eugenia gen. sta.....	Pole No. 297.....	40	125	6.78	297	22,000
57 x 29	5	Pole No. 971.....	Pole No. 1007.....	40	125	0.84	36	22,000
58 x 57	4	Pole No. 964.....	Pole No. 971.....	40	125	0.12	7	22,000
18 x 58	4	Priceville dist. sta.....	Pole No. 964.....	40	125	9.97	423	22,000
29 x 59	5	Pole No. 1007.....	Pole No. 1326.....	40	125	7.36	319	22,000
10 x 60	17	Shelburne dist. sta.....	Pole No. 1380.....	30	130	0.40	21	22,000
63 x 62	17	Pole No. 1798.....	Pole No. 1987.....	30	130	4.44	189	22,000
60 x 63	17	Pole No. 1380.....	Pole No. 1798.....	30	130	10.20	418	22,000
1 x 64	19	Eugenia gen. sta.....	Pole No. 373.....	35	125	8.35	373	22,000
3 x 65	2	Chatsworth dist. sta...	Pole No. 1141A.....	40	125	3.92	168	22,000
28 x 70	.....	Hanover switch sta.....	Pole No. 1822.....	40	132	7.27	297	22,000
76 x 71	.....	Pole No. 1977.....	Pole No. 2172.....	40	132	4.84	195	22,000
21 x 72	.....	Teeswater dist. sta....	Pole No. 2758.....	35	132	7.53	303	22,000
71 x 74	.....	Pole No. 2172.....	Pole No. 2393.....	35	132	5.51	222	22,000
70 x 76	.....	Walkerton, pole No. 1822.	Pole No. 1977.....	40	132	3.81	155	22,000

NOTE.—For inter-connected lines see Niagara System—Stratford District—Symbol "N8."

OF LINES

EUGENIA DIVISION—SYMBOL "E"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
2	3/0 aluminum	9 galv. iron†	9/32"galv.steel	C.P. 889	.....	April 28, 1922	April 30, 1922
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	.....	April 7, 1915	Nov. 18, 1915
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	.....	Mar. 17, 1915	Nov. 18, 1915
1	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	48	Dec. 4, 1915	June 18, 1916
1	1/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	24	May 20, 1915	Nov. 18, 1915
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	.....	April 13, 1915	Nov. 18, 1915
3	1-1/0 a.c.s-r.	9 galv. iron†					
	2-3/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	C.P. 133	31	Aug. 18, 1916	Sept. 16, 1916
2	1-3/0 aluminum						
	1-5/16" steel...	6 a.c.s-r.	1/4" galv. steel	C.P. 133	44	April 26, 1915	Nov. 18, 1915
1	1/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	62	June 9, 1915	Nov. 18, 1915
1	1/0 copper	9 galv. iron†	1/4" galv. steel	C.P. 889	13	Aug. 14, 1916	Oct. 6, 1916
1	6 copper	10 galv. iron†	.....	C.P. 889	21	Purchased by	H.E.P.C. 1916
				Victor	.....	Built by P.R.	Dev. Co. 1911
1	6 m.h-d copper	9 galv. iron†	1/4" galv. steel	C.P. 889	30	July 21, 1916	Dec. 1, 1916
1	6 galv. iron†	9 galv. iron†	1/4" galv. steel	C.P. 889	.....	Nov. 7, 1916	Jan. 1, 1918
1	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	2	Dec. 4, 1915	June 18, 1916
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	93	April 13, 1915	Nov. 18, 1915
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 1162	45	Aug. 11, 1920	Jan. 11, 1921
1	5/16" galv.steel	9 galv. iron†	5/16"galv.steel	C.P. 1162	.....	Sept. 13, 1920	Jan. 11, 1921
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 1162	10	Oct. 14, 1920	Dec. 21, 1920
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 1162	22	May 27, 1920	Dec. 19, 1920
1	2 a.c.s-r.	9 galv. iron†	4x12 galv. stl.	C.P. 1162	11	Dec. 1, 1920	Feb. 2, 1921
1	1/0 a.c.s-r.	6 a.c.s-r.	None	C.P. 889	30	June 9, 1923	Oct. 1, 1923
1	2 a.c.s-r.	9 galv. iron†	None	C.P. 889	.....	Sept. 24, 1923	Jan. 31, 1924
at junctions							
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	37	Mar. 17, 1915	Nov. 18, 1915
2	1-3/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	C.P. 133	11	Oct. 19, 1915	June 18, 1916
	1-3/0 aluminum						
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	17	April 10, 1915	Nov. 18, 1915
2	1-3/0 aluminum						
	1-5/16" steel	6 a.c.s-r.	1/4" galv. steel	C.P. 133	32	April 26, 1915	Nov. 18, 1915
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	.....	April 13, 1915	Nov. 18, 1915
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	4	April 13, 1915	Nov. 18, 1915
2	1-3/0 aluminum						
	1-5/16" steel	6 a.c.s-r.	1/4" galv. steel	C.P. 133	15	April 26, 1915	Nov. 18, 1915
1	6 copper	10 galv. iron†	.....	C.P. 889	7	Purchased by	H.E.P.C. 1916
				Victor		Built by P.R.	Dev.Co. 1911
1	6 copper	10 galv. iron†	.....	C.P. 889	39	Purchased by	H.E.P.C. 1916
				Victor		Built by P.R.	Dev. Co. 1911
1	6 copper	10 galv. iron†	.....	C.P. 889	.....	Purchased by	H.E.P.C. 1916
				Victor	.....	Built by P.R.	Dev.Co. 1911
1	1/0 copper	9 galv. iron†	1/4" galv. steel	C.P. 889	.....	Aug. 21, 1916	Oct. 6, 1916
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	96	April 7, 1915	Nov. 18, 1915
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 889	.....	May 22, 1920	Dec. 19, 1920
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 889	7	June 8, 1920	Dec. 19, 1920
				C.P. 1162			
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 1162	21	July 9, 1920	Dec. 21, 1920
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 1162	.....	July 30, 1920	Jan. 11, 1921
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16"galv.steel	C.P. 889			
				C.P. 1162	49	June 8, 1920	Dec. 19, 1920

* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

DESCRIPTION

GEORGIAN BAY SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
W.	W.L.							
52 x 2	2	Pole No. 1203.....	Beaverton dist. sta....	40	120	1.49	70	22,000
53 x 3	3	Pole No. 1559.....	Cannington dist. sta..	40	120	1.86	86	22,000
54 x 4	8	Pole No. 183.....	Severn Sys. (Longford)	35	132	6.41	267	22,000
56 x 6	.....	Pole No. 1011.....	Kirkfield dist. sta.....	35	150	11.34	412	22,000
3 x 9 *a*	.....	Cannington dist. sta...	Pinedale dist. sta.....	35	175	7.60	205	22,000
9 x 7	.....	Pinedale dist. sta.....	Greenbank dist. sta...	35	175	8.41	258	22,000
Lines terminating								
54 x 51	1	Pole No. 183.....	Pole No. 832.....	40	120	14.34	649	22,000
56 x 52	1	Pole No. 1011.....	Pole No. 1203.....	40	120	4.32	193	22,000
57 x 53	3	Pole No. 1408.....	Pole No. 1559.....	40	120	3.34	151	22,000
1 x 54	1 & 1A	Wasdells Falls gen. sta.	Pole No. 183.....	40	120	3.94	183	22,000
51 x 56	1	Pole No. 832.....	Pole No. 1011.....	40	120	3.93	178	22,000
52 x 57	3	Pole No. 1203.....	Pole No. 1408.....	40	120	4.47	205	22,000

a W3 x 9. This line carried on W3 x 303 poles from Cannington dist. sta. to Pole No. 39=0.83

MUSKOKA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
M.	M.L.							
1 x 2	1	South Falls gen. sta....	Huntsville dist. sta...	35	132	26.32	1,141	22,000
54 x 4	.....	Pole No. 97.....	Gravenhurst dist. sta.	45	160	0.15	6	38,000
G4 x 6	.....	South Falls gen. sta....	Waubaushene.....	45	450	32.00	424	38,000

NOTE.—For inter-connected lines, see Georgian Bay system, Symbol "G."

OF LINES

WASDELLS DIVISION—SYMBOL "W"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Mar. 30, 1914	Sept. 28, 1914
1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Feb. 18, 1914	Sept. 28, 1914
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 136	.....	Feb. 17, 1916	June 4, 1916
1	2 a.c.s-r	6 a.c.s-r.	9/32"galv.steel	O.B. 12546	.....	Feb. 10, 1920	April 22, 1920
1	5/16" galv. steel	9 galv. iron † 6 galv. iron †	None	C.P. 133	17	June 21, 1922	Sept. 29, 1922
1	5/16" galv. steel	9 galv. iron †	None	C.P. 133	.....	June 21, 1922	Sept. 29, 1922
at junctions							
1	1/0 a.c.s-r	10 c-c. steel	1/4" galv. steel	C.P. 136 C.P. 133	.....	Jan. 17, 1914	Sept. 28, 1914
1	1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 136 C.P. 133	5	Jan. 17, 1914	Sept. 28, 1914
1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Feb. 18, 1914	Sept. 28, 1914
2	1/0 aluminum 1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 136 C.P. 133	.....	Jan. 17, 1914	Sept. 28, 1914
1	1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 136 C.P. 133	34	Jan. 17, 1914	Sept. 28, 1914
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Feb. 18, 1914	Sept. 28, 1914

miles.

SYMBOL "M"

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	O.B. 12547	.....	Aug. 6, 1915	Aug. 15, 1916
1	2 a.c.s-r.	2-3x12 galv. steel	None	C.P. 2133	.....	.....	.....
1	4/0 a.c.s-r.	2-3x12 galv. steel	None	C.P. 2133	.....	Mar. 10, 1924	Nov. 16, 1924

* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

DESCRIPTION

ST. LAWRENCE SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
			Lines terminating					
L. 72 x 22	St. L.	Pole No. 564.....	Eugene Phillips Co...	40	175	2.60	67	44,000
11 x 1*a*	.....	Mille Roche.....	Cornwall trans. sta...	.....	.....	.....	.....	.....
53 x 2	.....	Morrisburg jct. No. 1..	Prescott dist. sta.....	40	120	22.96	1084	44,000
7 x 4	2	Williamsburg dist. sta..	Winchester dist. sta...	40	120	9.78	449	26,400
4 x 5	3	Winchester dist. sta....	Chesterville dist. sta..	40	120	6.71	303	26,400
68 x 6	12	Pole No. 85.....	Toronto Paper Co. dist sta.	40	176	0.11	5	44,000
54 x 7	2	Pole No. 94.....	Williamsburg dist. sta.	40	120	4.61	204	26,400
66 x 13	.....	Pole No. 143.....	Martintown dist. sta..	45	325	5.55	88	44,000
13 x 14	.....	Martintown dist. sta...	Apple Hill dist. sta...	45	325	5.36	91	44,000
67 x 15	.....	Pole No. 349.....	Alexandria dist. sta...	45	325	8.91	161	44,000
68 x 18	.....	Pole No. 85.....	Cornwall P. & P. Co..	50	132	1.66	73	44,000
72 x 3	.....	Pole No. 564.....	Brockville dist. sta....	40	120	1.58	75	44,000
54 x 21	.....	Winchester jct. No. 94.	Morrisburg dist. sta...	40	120	1.19	54	26,400
			Lines terminating					
1 x 51	8	Cornwall trans. sta.....	Pole No. 391.....	40	176	12.63	391.	44,000
51 x 54	8	Pole No. 391.....	Pole No. 94.....	40	176	12.76	340	44,000
1 x 66	.....	Cornwall trans. sta....	Pole No. 143.....	45	325	8.12	143	44,000
14 x 67	.....	Apple Hill dist. sta....	Pole No. 349.....	45	325	1.62	27	44,000
1 x 68	12	Cornwall trans. sta....	Pole No. 85.....	40	176	2.46	85	44,000
21 x 53	.....	Morrisburg dist. sta....	Pole No. 1.....	40	120	0.77	40	44,000
2 x 72	.....	Prescott dist. sta.....	Pole No. 564.....	40	120	12.50	555	44,000

a L11 x 1, telephone line only.
Power supplied from Cedar Rapid Power Co. lines at 110,000 volts.

OF LINES

SYMBOL "L"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
1	4/0 a.c.s-r.	3x12galv.steel	None	C.P. 1159 C.P. 1725	12	April 21, 1922	Sept. 30, 1922
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 1159 O.B. 25529	91	Oct. 29, 1912	Oct. 23, 1913
1	5/16" galv. steel	10 c-c. steel	1/4" galv. steel	Thom 2111	25	June 4, 1912	Dec. 18, 1913
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	151	Sept. 6, 1913	Feb. 7, 1914
1	336,000 c.m. a.c.s-r.	9 galv. iron †	9/32"galv.steel	C.P. 1159 J.D. 2 units J.D. 3 units	.....	Sept. 24, 1918	June 19, 1919
1	5/16" galv. steel	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	June 4, 1912	Dec. 18, 1913
1	2 a.c.s-r.	3x12galv.steel	9/32"galv.steel	J.D. 2 units J.D. 3 units	.....	June 4, 1920 Jan. 18, 1921	
1	2 a.c.s-r.	3x12galv.steel	9/32"galv.steel	J.D. 2 units J.D. 3 units	10	July 15, 1920	Jan. 18, 1921
1	2 a.c.s-r.	3x12galv.steel	9/32"galv.steel	J.D. 2 units J.D. 3 units	7	Aug. 12, 1920	Jan. 18, 1921
1	6/0 a.c.s-r.	6 a.c.s-r.	9/32"galv.steel	C.P. 1159 J.D. 2 units J.D. 3 units	.....	Jan. 13, 1921	May 26, 1921
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 1159 O.B. 25529 reinsul. 1922	74	Oct. 16, 1914	April 4, 1915
2	5/16" galv. steel 1-cir. 3/0 alum. 1-cir.	2-cirs. 10 c-c. steel	1/4" galv. steel	Thom 2111	.....	June 4, 1912	Dec. 18, 1913
at junctions							
1	3/0 aluminum	9 galv. iron †	9/32"galv.steel	C.P. 1159 J.D. 2 units J.D. 3 units	.....	May 7, 1918	April 30, 1919
1	3/0 aluminum	9 galv. iron †	9/32"galv.steel	C.P. 1159 J.D. 2 units J.D. 3 units	.....	May 7, 1918	April 30, 1919
1	2 a.c.s-r.	3x12galv.steel	9/32"galv.steel	J.D. 2 units J.D. 3 units	.....	June 2, 1920	Jan. 18, 1921
1	2 a.c.s-r.	3x12galv.steel	9/32"galv.steel	J.D. 2 units J.D. 3 units	.....	Aug. 11, 1920	Jan. 18, 1921
1	336,000 c.m. a.c.s-r.	9 galv. iron †	9/32"galv.steel	C.P. 1159 J.D. 2 units J.D. 3 units	.....	Sept. 24, 1918	June 19, 1919
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 1159 O.B. 25529 reinsul. 1922	.....	Aug. 21, 1922	Aug. 21, 1922
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 1159 O.B. 25529 reinsul. 1922	6	Oct. 16, 1914	April 4, 1915

* All Browne & Sharpe gauge, except where otherwise noted.
† Birmingham wire gauge.

DESCRIPTION

RIDEAU SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
H.	R.L.							
8 x 2	1	Balderson dist. sta.....	Perth dist. sta.....	35	132	4.95	201	26,400
55 x 3	2	Pole No. 1328.....	Smiths Falls dist. sta..	35	132	5.64	233	26,400
55 x 5	4	Pole No. 1328.....	Carleton Place dist.sta.	30	150	14.24	523	26,400
3 x 7	3	Smiths Falls dist. sta...	Merrickville gen. sta..	35	132	12.30	517	26,400
1 x 8	1	High Falls gen. sta....	Balderson dist. sta....	35	132	16.08	666	26,400
2 x 55	2	Perth dist. sta.....	Pole No. 1328.....	35	132	11.31	459	26,400
7 x 10	.....	Merrickville gen. sta...	Grenville Crushed Rock Co.....	35	250	5.94	127	26,400
10 x 9	.....	Grenville Crushed Rock Co.....	Kemptville dist. sta...	35	250	6.19	130	26,400

THUNDER BAY SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
P.								
50 x 51	.....	Sprucewood jct.....	Everard switch.....	45	330	1.90	30	110,000
51 x 55	.....	Everard.....	Dorion switch.....	45	330	10.93	174	110,000
55 x 52	.....	Dorion switch.....	Pearl switch.....	45	330	11.00	181	110,000
52 x 53	.....	Pearl.....	Sibley switch.....	45	330	12.90	209	110,000
53 x 54	.....	Sibley.....	Bare Point jct.....	45	330	14.02	227	110,000
54 x 2(T)	.....	Bare Point jct.....	Pt. Arthur trans. sta.	45	330	0.35	6	110,000
1 x 56	.....	Nipigon gen. sta.....	Nipigon jct.....	Right-of-way cleared.				
56 x 50*c*	.....	Nipigon jct.....	Sprucewood jct.....	45	330	6.43	106	110,000
56 x 6	.....	Nipigon jct.....	Nipigon Fibre & P. Co.	45	330	0.25	5	110,000
2 x 59*a*	.....	Bare Point trans. sta..	Intercities.....	50	630	8.49	67	110,000
59 x 8	.....	Intercities.....	G. Lakes P. & P. Co..	50	325	5.72	112	110,000
57 x 56	.....	Reserve jct. 1.....	Nip. Fibre & P. Co. jct. 32.	45	500	2.93	32	110,000
1 x 2*b*	.....	Nipigon gen. sta.....	Bare Point trans. sta..	.....	830	62.10	405	110,000
1 x 57	.....	Nipigon gen. sta.....	Reserve jct.....	45	330	11.09	181	110,000
57 x 50	.....	Reserve jct.....	Sprucewood jct.....	45	330	6.15	103	110,000

NOTE.—For operating purposes, section P50 x P6 have been grouped and are known as P50 x 6.
For operating purposes, section P50 x P2 (temporary station) have been grouped and

a P2 x 59—A.A. type towers for 5.31 miles, Blaw Knox type towers for 2.46 miles and wood Blaw Knox type towers, Nos. 22 to 67 "A.A." type towers.

b P1 x 2—Towers.

c P56 x 50—Out of service, connected to new tower line.

OF LINES

SYMBOL "H"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	125,000 c.m. a.c.s-r.	9 galv. iron †	9/32"galv.steel	C.P. 889	2	Aug. 22, 1918	June 23, 1919
1	125,000 c.m. a.c.s-r	9 galv. iron †	9/32"galv.steel	C.P. 889	21	April 12, 1918	Feb. 18, 1919
1	125,000 c.m. a.c.s-r.	9 galv. iron †	9/32"galv.steel	O.B. 11622 C.P. 889	.....	May 7, 1919	May 31, 1920
1	5/16" galv. steel	9 galv. iron †	1/4" galv. steel	C.P. 889	54	Nov. 27, 1917	Sept. 5, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron †	9/32"galv.steel	C.P. 889	.....	Aug. 22, 1918	June 23, 1919
1	125,000 c.m. a.c.s-r.	9 galv. iron †	9/32"galv.steel	C.P. 889	75	April 12, 1918	Feb. 18, 1919
1	3x12 galv. steel	3x12galv.steel	None	O.B. 9410	.....	July 26, 1921	Nov. 28, 1921
1	3x12 galv. steel	3x12galv.steel	None	O.B. 9410	.....	July 26, 1921	Nov. 28, 1921

SYMBOL "P"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	4/0 a.c.s-r.	3x13galv.steel	9/32"galv.steel	C.P. 2133	.....	Dec. 17, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13galv.steel	9/32"galv.steel	O.B. 12464	.....	Mar. 1, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13galv.steel	9/32"galv.steel	O.B. 12464	.....	Mar. 1, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13galv.steel	9/32"galv.steel	C.P. 2133	.....	Oct. 27, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13galv.steel	9/32"galv.steel	C.P. 2133	.....	May 3, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13galv.steel	9/32"galv.steel	C.P. 2133	.....	Nov. 4, 1920	Dec. 20, 1920
1	4/0 a.c.s-r.	3x12galv.steel	9/32"galv.steel	C.P. 2133	.....	Nov. 20, 1920	April 29, 1921
1	4/0 a.c.s-r.	3x12galv.steel	9/32"galv.steel	C.P. 2133	.....	Mar. 9, 1921	April 29, 1921
1	4/0 copper	None	None	C.P. 2133	.....	Jan. 7, 1924	May 1, 1924
1	2/0 copper	3x13 steel	None	C.P. 2133	.....	Jan. 15, 1924	May 1, 1924
1	4/0 a.c.s-r.	3x13 steel	None	C.P. 2133	.....	Dec. 1, 1923	Sept. 7, 1924
1	4/0 copper	None	None	C.P. 2133	.....	Jan., 1924	Sept. 30, 1924
1	4/0 a.c.s-r.	3x13 steel	9/32"galv.steel	C.P. 2133	.....	Dec. 17, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13 steel	9/32"galv.steel	C.P. 2133	.....	Dec. 17, 1919	Dec. 20, 1920

are known as P50 x 2(T).
poles from Oliver Road to Central Ave, 0.72 miles. No. 1=1920 type tower, Nos. 2 to 21 inclusive.

* All Browne & Sharpe gauge, except where otherwise noted.
† Birmingham wire gauge.

DESCRIPTION

CENTRAL ONTARIO AND TRENT SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
C. 53 x 3	R	Wooler sw. pole No. 770	Sydney terminal sta...	40	176	6.47	207	44,000
96 x 6	H	Picton jct.....	Brighton trans. sta....	35	132	7.30	306	44,000
6 x 7	H	Brighton trans. sta....	Colborne trans. sta...	35	132	10.10	366	44,000
7 x 13	H	Colborne trans. sta....	Cobourg trans. sta....	35	132	13.80	645	44,000
13 x 16	H	Cobourg trans. sta.....	Port Hope trans. sta..	35	132	6.70	248	44,000
66 x 22	C	Port Hope sw. sta.....	Newcastle trans. sta..	35	132	16.63	711	44,000
22 x 23	C	Newcastle trans. sta...	Jct. pole No. 929.....	35	132	5.18	220	44,000
		Jct. pole No. 929.....	Bowmanville trans.sta.	40	150	1.02	35	44,000
23 x 24	C	Jct. pole No. 929.....	Oshawa trans. sta....	35	132	9.79	403	44,000
75 x 25	Millb'k Tap	Millbrook jct.....	Millbrook trans. sta...	35	132	1.70	71	44,000
76 x 29	L	Omemee sw. tower.....	Lindsay trans. sta....	35	132	13.20	559	44,000
30 x 29	100 & 101	Fenelon Falls gen. sta..	Lindsay trans. sta....	30	100	13.00	725	11,000
14 x 31	Y	Heely Falls gen. sta....	Norwood trans. sta...	40	300	10.44	174	44,000
47 x 32	.....	Marmora trans. sta....	Deloro trans. sta.....	35	132	4.10	182	44,000
83 x 33	Madoc Tap	Madoc jct.....	Madoc trans. sta.....	35	132	9.60	437	44,000
83 x 34	A	Madoc jct.....	Sulphide trans sta....	35	132	20.30	862	44,000
85 x 35	Stirling Tap	Stirling jct.....	Stirling trans. sta.....	35	132	0.20	8	44,000
88 x 38	B'ville Tap	Belleville sw. sta.....	Belleville trans. sta...	35	132	1.30	41	44,000
90 x 39	B.C.Co. Tap	Belleville Chem. Co. jct.	Belleville Cement Co. sta.	35	132	1.00	55	44,000
90 x 40	Quarry Tap	Belleville Cement Co. jct.	Pt. Anne Quarries sta.	35	132	0.90	49	44,000
91 x 41	E & F	Lehigh jct.....	Lehigh Cem. Co. trans. sta.....	35	132	0.60	33	44,000
92 x 42	J	Deseronto jct.....	Deseronto trans. sta..	35	132	2.80	115	44,000
92 x 43	J	Deseronto jct.....	Napanee trans. sta....	35	132	6.00	246	44,000
43 x 44	J	Napanee trans. sta.....	Kingston trans. sta...	40	175	26.50	863	44,000
96 x 45	Picton Tap	Picton jct.....	Wellington trans. sta..	40	176	17.45	511	44,000
45 x 46	Picton Tap	Wellington trans. sta...	Picton trans. sta.....	40	176	10.80	331	44,000
82 x 47	Deloro Tap	Deloro jct.....	Marmora trans. sta...	35	132	10.40	464	44,000
8 x 9	.....	Dam No. 8.....	Dam No. 9.....	40	350	2.00	33	44,000
9 x 10	.....	Dam No. 9.....	Dam No. 10.....	40	350	1.50	26	44,000

OF LINES

SYMBOL "C"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at transformers or generating stations							
2	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 25529 O.B. 11623	.....	.....	1918
1	4/0 aluminium	9 galv. iron†	5/16"galv.steel	C.P. 1159 O.B. 11623	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	9	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	4/0 a.c.s-r.	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
2	4/0 a.c.s-r.	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	6 galv. iron†	9 galv. iron†	5/16"galv.steel	O.B. 10638	.....	.....	1912
1	2/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	12	.....	1912
2	4 copper	9 galv. iron†	barbed wire	.....	.....	.....	1899
1	4/0 a.c.s-r.	3x13 galv. stl.	9/32"galv.steel	C.P. 1725	.....	2-susp. 3-strain.	1920
1	2 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1909
1	2 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	45	.....	1910
1	2 aluminum	9 galv. iron†	5/16"galv.steel	O.B. 25529	.....	.....	1910
1	2 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1910
1	4/0 aluminum 2 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1910
1	2 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	2 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
2	2 a.c.s-r.	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	.....
1	1/4" x 5/16" galv. steel	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1912
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1912
1	1/0 copper	9 galv. iron†	1/4" galv. steel	C.P. 1725	191	.....	1917
1	9/32" galv. steel	9 galv. iron†	9/32"galv.steel	C.P. 1159	.....	.....	1919
1	9/32" galv. steel	9 galv. iron†	9/32"galv.steel	C.P. 1159	108	.....	1919
1	2 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1909
1	4/0 a.c.s-r.	None	None	C.P. 2133	.....	.....	1924
1	4/0 a.c.s-r.	None	None	C.P. 2133	.....	.....	1924

* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

DESCRIPTION

CENTRAL ONTARIO AND TRENT SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
								Lines terminating
C. 86 x 52	G	Pulp Mill jct.	G.B. jct.	35	132	14.20	641	44,000
14 x 61	O	Heely Falls	Campbellford jct.	35	132	3.60	169	44,000
16 x 66	H	Port Hope	Port Hope sw. sta.	35	132	0.20	7	44,000
66 x 75	K	Port Hope sw. sta.	Millbrook jct.	35	132	15.50	663	44,000
79 x 76	L	Lindsay jct.	Omemee sw. tower	35	132	6.00	253	44,000
75 x 79	K	Millbrook jct.	Lindsay jct.	35	132	10.70	447	44,000
11 x 82	A	Seymour gen. sta.	Deloro sw. sta.	35	132	5.50	244	44,000
84 x 83	A	Harold jct.	Madoc jct.	35	132	5.10	212	44,000
82 x 84	A	Deloro jct.	Harold jct.	35	132	4.50	182	44,000
85 x 84	Q	Stirling jct.	Harold jct.	35	132	8.30	308	44,000
52 x 85	Q	G. B. jct.	Stirling jct.	35	132	1.10	46	44,000
11 x 86	G	Seymour gen. sta.	Pulp Mill jct.	35	132	1.20	57	44,000
3 x 88	M	Sidney terminal sta.	Belleville sw. sta.	35	132	12.70	516	44,000
52 x 88	B	G.B. jct.	Belleville sw. sta.	35	132	13.00	568	44,000
88 x 90	E & F	Belleville sw. sta.	Belleville Cem. Co. jct.	35	132	4.80	246	44,000
90 x 91	E & F	Belleville Cem. Co. jct.	Lehigh jct.	35	132	1.00	51	44,000
91 x 92	J	Lehigh jct.	Deseronto jct.	35	132	11.20	552	44,000
3 x 96	H	Sidney terminal sta.	Picton jct.	35	132	4.70	203	44,000
10 x 60	.....	Ranney Falls gen. sta.	Pole No. 249	40	125	0.38	15	44,000
64 x 49	.....	Jct. pole No. 358	Warkworth sta.	40	176	2.56	78	44,000
49 x 53	.....	Warkworth sta.	Wooler pole No. 770	40	176	10.62	334	44,000
14 x 60	.....	Heely Falls gen. sta.	Pole No. 249	40	176	7.48	249	44,000
8 x 64	.....	Dam No. 8, gen. sta.C8	Pole No. 358	40	125	0.70	25	44,000
31 x 69	.....	Norwood trans. sta.	Auburn switch sta.	40	300	17.89	301	44,000
79 x 69	.....	Lindsay jct.	Auburn switch sta.	35	132	8.70	384	44,000
9 x 59	.....	Dam No. 9	Pole No. 289	40	425	0.74	12	44,000
60 x 59	.....	Pole No. 249	Pole No. 289	40	176	1.26	40	44,000
59 x 64	.....	Pole No. 289	Pole No. 358	40	176	2.14	69	44,000
10 x 62	.....	Dam No. 10	Pole No. C62	40	350	0.50	8	44,000
62 x 86	.....	Jct. pole No. C62	Jct. No. C86	35	132	1.00	37	44,000
								Lines terminating
69 x 2001	.....	Auburn switch sta.	Peterborough	40	175	2.08	76	44,000
62 x 36	.....	Jct. No. C62	Campbellford Pulp Mills trans. sta.	35	132	0.40	19	44,000

OF LINES

SYMBOL "C"—Continued

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at switching stations or junctions							
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1912
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	Pole 1-600 362 Locke	.....	.....	1912
1	2/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	.....
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	P. 600-630 362 Locke	.....	.....	1912
1	2 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1909
1	2 aluminum	9 galv. iron†	5/16"galv.steel	O.B. 25529 C.P. 1159	.....	.....	1910
1	2 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1909
1	2 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1910
1	2 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1910
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159 O.B. 11623	.....	.....	1910
2	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159 O.B. 12855	9	.....	1911
2	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1912
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	O.B. 11623	.....	.....	1911
2	4/0 a.c.s-r.	10 c-c. steel	None	C.P. 1159 C.P. 1725	.....	.....	Aug. 12, 1922
2	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 25529 O.B. 11623	.....	.....	1918
2	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623 O.B. 25529	.....	.....	1918
1	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623	.....	.....	1918
1	4/0 a.c.s-r.	10 c-c. steel	None	C.P. 1159	.....	.....	1923
1	4/0 a.c.s-r.	3x13 galv. stl.	9/32"galv.steel	C.P. 1925	.....	2-susp. 3-strain.	1920
1	4/0 aluminum	9 galv. iron†	5/16"galv.steel	C.P. 1159	.....	.....	1912
1	3/0 a.c.s-r.	1/4" galv.steel	None	O.B. 12464	.....	.....	1923
1	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623	.....	.....	1918
1	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623	.....	.....	1918
1	4/0 a.c.s-r.	None	None	C.P. 2133	.....	.....	1924
1	4/0 a.c.s-r.	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	restrung 1924	1911
at customers or junctions							
1	4/0 a.c.s-r.	6 a.c.s-r.	None	O.B. 12464	.....	Oct. 15, 1923	Mar. 20, 1924
1	2 aluminum	9 galv. iron†	5/16"galv.steel	362 Locke Retested	.....	.....	1911

* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

DESCRIPTION

NIPISSING SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Z.								
1 x 52	.....	Nipissing gen. sta.....	Bingham chute jct....	34	126	3.00	137	22,000
52 x 3	.....	Bingham chute jct.....	Callendar dist. sta....	34	126	7.00	372	22,000
3 x 4	.....	Callendar dist. sta.....	North Bay dist. sta...	35	126	8.20	343	22,000
6 x 52	.....	Bingham chute gen. sta.	Jct. "Pole" 207	32 35	126 132	4.55	207	22,000

OF LINES

SYMBOL "Z"

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	2 aluminum	9 galv. iron†	1/4" galv. steel	similar to O.B. 9410	.....	Aug., 1909	Mar., 1910
1	2 aluminum	9 galv. iron†	1/4" galv. steel	similar to O.B. 9410	.....	Aug., 1909	Mar., 1910
1	2 aluminum	9 galv. iron†	1/4" galv. steel	similar to O.B. 9410	.....	Aug., 1909	Mar., 1910
1	2 aluminum 1/0 a.c.s-r.	9 galv. iron†	1/4" galv. steel	O.B. 9410 C.P. 889	.....	May, 1923	Dec., 1923

* All Browne & Sharpe gauge, except where otherwise noted. † Birmingham wire gauge.

APPENDIX IV

DISTRIBUTION LINES AND SYSTEMS

Summaries of Data respecting Rural Distribution Systems, Distribution Feeders, Metering Stations, and Municipal Distribution Systems constructed by the Hydro-Electric Power Commission

Also

Detailed Descriptions of the individual Transmission Lines of less than 5,000 volts (Distribution Feeders) operated by the Hydro-Electric Power Commission as existing on October 31, 1924

DISTRIBUTION LINES AND SYSTEMS

Below is shown in tabular form the work carried on under the supervision of the Distribution section of the Electrical Engineering and Laboratory department during the year ended October 31, 1924.

This work includes the construction of rural distribution systems, the installation of a number of 4,000- and 2,300-volt feeders to supply urban municipalities and some special consumers, and the construction of metering equipments. Distribution systems were constructed by the Commission for certain municipalities, at the request and at the expense of the municipalities concerned.

RURAL DISTRIBUTION SYSTEMS CONSTRUCTED

Rural power district	Property number	At October 31, 1923		At October 31, 1924	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Niagara	N1D1	3.50	13	20.84	57
Homer	N1D2	2.57	40	3.40	75
Jordan	N1D3	16.12	63	16.57	71
Beamsville	N1D4	36.35	255	41.68	325
Welland	N1D5	0.65	49	20.20	1205
Stamford	N1D6	6.88	159	7.26	161
Chippawa	N1D7	7.55	79	7.55	86
Dundas	N2D1	4.30	25	4.65	142
Lynden	N2D2	10.50	35	20.39	90
Waterdown	N2D3	1.89	33	1.89	37
Barton	N2D7	.....	.....	3.85	35
Markham	N3D1	7.75	114	7.75	129
Scarboro	N3D2	0.65	1	4.13	35
Bond Lake	N3D3	.....	.....	11.50	232
Newmarket	N3D4	.....	.....	.....	8
Keswick	N3D5	.....	.....	9.90	327
Mountjoy	N3D6	.....	.....	.....	11
Lansing	N3D7	.....	.....	14.90	233
Dorchester	N4D1	32.76	226	34.20	240
London	N4D2	12.65	66	49.52	1174
Delaware	N4D3	21.28	139	21.48	152
Exeter	N4D6	12.25	131	12.25	135
Georgetown	N5D2	.....	.....	3.40	31
Preston	N6D1	22.48	203	31.96	254
Galt	N6D2	3.25	26	3.25	27
Baden	N7D1	5.50	36	7.12	37
St. Jacobs	N7D2	2.70	51	22.45	178
Tavistock	N8D1	3.70	49	4.30	51
Walton	N8D3	.....	.....	0.34	14
Stratford	N8D4	.....	.....	5.00	120
Woodstock	N10D2	57.63	249	57.63	263
Ingersoll	N10D3	0.12	1	0.12	1
Tillsonburg	N10D4	1.50	.....	6.50	52
St. Thomas	N11D1	22.30	29	42.91	402
Aylmer	N11D2	6.00	1	9.20	34
Brant	N12D1	13.90	94	15.03	105
Waterford	N12D3	0.19	1	4.69	15
Drumbo	N12D5	7.50	77	7.50	84
Simcoe	N12D6	0.23	11	0.23	12
Streetsville	N13D1	1.41	4	1.41	5

RURAL DISTRIBUTION SYSTEMS CONSTRUCTED—Continued

Rural power district	Property number	At October 31, 1923		At October 31, 1924	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM—Continued					
Brampton	N13D2	1.13	4	1.13	4
Chatham	N14D1	27.38	136	28.88	148
Ridgetown	N14D2	25.20	135	25.20	154
Blenheim	N14D3	.....	.....	9.83	54
Sarnia	N14D4	9.75	129	12.50	208
Petrolia	N14D5	1.33	10	1.53	11
Bothwell	N14D10	.....	.....	0.50	12
Wallaceburg	N14D13	23.10	62	32.10	244
Tilbury	N14D14	.....	.....	0.03	5
Sandwich	N15D1	6.14	68	29.31	671
Belle River	N15D2	12.50	114	12.50	141
Amherstburg (a)	N15D3	.....	.....	4.66	100
Harrow (b)	N15D4	.....	.....	0.40	4
Kingsville (c)	N15D5	4.00	86	10.50	267
Leamington (d)	N15D6	.....	.....	15.50	193
Woodbridge	N16D1	1.86	18	2.75	50
Bolton	N16D2	.....	.....	1.15	3
Saltfleet	N17D1	59.90	624	63.88	715

(a) Old property number J 2 D 1
(b) Old property number J 3 D 1
(c) Old property number J 4 D 1
(d) Old property number J 5 D 1

GEORGIAN BAY SYSTEM					
Eugenia Division					
Flesherton	E1D1	1.76	19	1.76	18
Ripley	E24D2	.....	1	.....	1
Walkerton Quarries	E26D1	1.60	4	1.60	4
Wasdells Division					
Cannington No. 1	W3D1	1.25	3	3.15	18
Cannington No. 2	W3D2	.....	.....	3.75	18
Port Perry	W7D2	.....	13	.....	14
Mariposa	W9D1	18.50	104	18.50	109
Severn Division					
Barrie	S4D1	5.20	20	5.20	31
Nottawasaga	S5D1	4.00	63	7.25	69
Elmvale	S7D1	.....	.....	.....	19
Stayner	S10D1	11.00	105	11.00	134
ST. LAWRENCE SYSTEM					
Prescott	L2D1	13.55	66	13.55	71
Brockville	L3D1	8.26	27	8.66	30
Chesterville	L5D1	3.25	13	3.25	8
Williamsburg	L7D1	.....	.....	0.25	1
Martintown	L13D1	2.90	47	2.90	48
Apple Hill	L14D1	.....	.....	.....	1

RURAL DISTRIBUTION SYSTEMS CONSTRUCTED—Concluded

System	Property number	At October 31, 1923		At October 31, 1924	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
CENTRAL ONTARIO SYSTEM					
Bowmanville	C23D1	.....	.....	0.50	4
Trenton	C37D1	.....	.....	0.55	1
Kingston	C44D1	10.80	54	12.92	73
OTTAWA SYSTEM					
Nepean	T1D1	25.00	109	25.00	111
SUMMARY					
Niagara system		494.35	3,431	789.30	9,629
Essex County system		4.00	86	(31.06)	(564)
Georgian Bay system		43.31	332	52.21	435
St. Lawrence system		27.96	153	28.61	159
Central Ontario and Trent system		10.80	58	13.97	78
Ottawa system		25.00	109	25.00	111
Total		605.42	4,169	909.09	10,412

NOTE.—For 1924 Essex County system shown separately, but also included in figures for Niagara system.

DISTRIBUTION FEEDERS CONSTRUCTED

Line and property number	Voltage	Phase	Date work was commenced	Date work was made alive	Date work was completed	Mileage
NIAGARA SYSTEM						
Decewsville to Cayuga. N246x15	4,000	3	Aug. 22, 1924	Oct. 27, 1924	.....	2.6
Hagersville to Jarvis. . N239x12	4,000	3	Dec. 13, 1923	Feb. 18, 1924	Feb. 25, 1924	6.0
Bond Lake to Kettleby ..... *a*. N3342x15	4,000	3	April 11, 1924	May 10, 1924	April 22, 1924	5.8
Broughdale to Western University N451x22	4,000	3	June 28, 1924	July 8, 1924	July 8, 1924	0.95
Harriston to Clifford. . N841x14	4,000	3	Mar. 13, 1924	May 12, 1924	May 15, 1924	6.5
Walton to Brussels. . . . N846x17	4,000	3	May 30, 1924	July 11, 1924	July 14, 1924	4.8
Walton to Blythe. N846x18	4,000	3	June 10, 1924	July 18, 1924	July 21, 1924	7.0
Blenheim to Erieau. . . N1464x91	2,300	1	May 30, 1924	July 12, 1924	Aug. 22, 1924	2.5
Corunna to Courtright. N1488x28	2,300	1	Oct. 17, 1923	Dec. 15, 1923	Dec. 31, 1923	4.5
Dom. Petroleum Jct. to Dom. Petroleum Co. N1489x29	4,000	3	Dec. 17, 1923	Jan. 22, 1924	Jan. 22, 1924	3.0
Leamington to Wheatley. . . . . N1545x49 (Old No. J5x502)	4,000	3	Jan. 15, 1924	Feb. 23, 1924	April 9, 1924	7.0
Total	.....	.....	.....	.....	.....	50.65

(*a*) Neutral added to existing 4,000 volt circuit.

METERING STATIONS CONSTRUCTED

Station	Property number	Date work was completed	Measuring power for
NIAGARA SYSTEM			
Queenston	N148	*a* April 30, 1924	Municipality of Queenston.
Cayuga	N245	Oct. 27, 1924	Municipality of Cayuga.
Glencoe	N1450	Dec. 10, 1923	Municipality of Glencee.
Courtright	N1458	Feb. 14, 1924	Municipality of Courtright.
Dominion Petroleum Company	N1459	April 24, 1924	Dominion Petroleum Company.
Erieau	N1492	Aug. 22, 1924	Municipality of Erieau.
Wheatley *b*	N1549	Mar. 10, 1924	Municipality of Wheatley.
Bolton	N1635	.....	Municipality of Bolton.
Stamford	N1D36	July 15, 1924	Stamford rural power district.
Barton	N2D37	May 23, 1924	Barton rural power district.
London	N4D32	Jan. 31, 1924	London rural power district.
Tillsonburg	N10D34	Dec. 11, 1923	Tillsonburg rural power district.
Brant	N12D31	July 31, 1924	Brant rural power district.
Sandwich	N15D31	Feb. 25, 1924	Sandwich rural power district.

(*a*) Changed from single-phase to three-phase.
(*b*) Old number J 532.

MUNICIPAL DISTRIBUTION SYSTEMS CONSTRUCTED

Municipality	Date work was commenced	Date work was made alive	Date work was completed
NIAGARA SYSTEM			
Cayuga	Aug. 22, 1924	Oct. 27, 1924	.....
Jarvis	Nov. 29, 1923	Feb. 18, 1924	Feb. 25, 1924
Courtright	Oct. 31, 1923	Dec. 15, 1923	Jan. 11, 1924
Wheatley	Jan. 15, 1924	April 8, 1924	April 9, 1924
Ancaster Township *a*	Aug. 1, 1924	Aug. 25, 1924	Aug. 25, 1924
King City *b*	Feb. 15, 1924	Feb. 29, 1924	Mar. 1, 1924
Schomberg *b*	May 1, 1924	May 10, 1924	May 19, 1924
Campden *b*	Nov. 1, 1923	Nov. 2, 1923	Nov. 9, 1923
Belmont *b*	Jan. 23, 1924	Feb. 8, 1924	Feb. 9, 1924
Shedden *b*	Oct. 24, 1923	Oct. 29, 1923	Dec. 8, 1923
Fingal *b*	Oct. 24, 1923	Nov. 23, 1923	Dec. 17, 1923
Corunna *b*	Dec. 18, 1923	Dec. 20, 1923	Dec. 20, 1923
Port Lambton *b*	Jan. 8, 1924	Jan. 15, 1924	Jan. 15, 1924
Sombra *b*	Jan. 8, 1924	Jan. 15, 1924	Jan. 15, 1924
Linwood *b*	July 27, 1924	Aug. 1, 1924	Aug. 4, 1924
SEVERN SYSTEM			
Barrie *c*	April 24, 1924	.....	.....

(*a*) Voltage changed from 2,200 volts to 4,000 volts.
(*b*) Street lights only.
(*c*) Engineering only in connection with underground conduit and cable system for street lighting and general power distribution.

DESCRIPTION
TRANSMISSION LINES OF
(Distribution

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
			NIAGARA SYSTEM—		
N101 x 21	.....	Welland municipal limits	Welland Co. rock crusher	30	160
N114 x 2	N.C.R. 136-1	St. Catharines mun. sta.	Pt. Dalhousie mun. sta..	30	120
N147 x 18	.....	St. David's dist. sta.....	Queenston.....	30	160
N153 x 25	.....	Grimsby dist. sta.....	Growers' Cold Storage Co.....	30	160
a Line carried on A274 x 45 for 63 spans, 12,000 volts, 35-ft. poles, 120-ft. spans.					
			NIAGARA SYSTEM—		
N202 x 11	L.T. 209	Dundas mun. sta.....	Copetown.....	35	132
N237 x 7	L.T. 61	Caledonia dist. sta.....	Caledonia.....	40	120
N237 x 8	L.T. 47A	Caledonia dist. sta.....	Alabastine Company....	40	120
N239 x 12	.....	Hagersville dist. sta.....	Jarvis.....	30	160
N246 x 15	.....	Decewsville dist. sta....	Cayuga.....	35	160
a Line carried on poles of N264 x 2 and N264 x 71, 13,200 volts, 35-ft. poles, 132-ft. span. *b* Line carried on poles of N237 x 70, 13,200 volts, 40-ft. poles, 120-ft. span.					
			NIAGARA SYSTEM—		
N301 x 63	N.C.R. 607-1	Toronto mun. limits....	Unionville jct.....	30	.....
N363 x 67	N.C.R. 607-1	Unionville jct.....	Markham jct.....	30	.....
N367 x 7	L.T. 215	Markham jct.....	Markham.....	40	125
N3342 x 13	.....	Bond Lake dist. sta.....	Richmond Hill.....	45	100
N3342 x 14	.....	Bond Lake dist. sta.....	Aurora.....	45	100
N3342 x 15	.....	Bond Lake dist. sta.....	Kettleby.....	35	100
N3346 x 14	.....	Newmarket dist. sta....	Aurora.....	45	100
N3346 x 17	.....	Newmarket dist. sta....	Davis Leather Co.....	30	100
N3349 x 84	.....	Keswick dist. sta.....	Sedore dist. sta.....	35	100
N3384 x 20	.....	Sedore dist. sta.....	Sutton.....	35	100
N3352 x 21	.....	Mount Joy dist. sta.....	Stouffville.....	30	160
			NIAGARA SYSTEM—		
N432 x 3	L.T. 116	Delaware dist. sta.....	Lambeth.....	40	120
N432 x 4	L.T. 117	Delaware dist. sta.....	Mount Brydges.....	40	120
N439 x 8	L.T. 78 & 78A	Dorchester dist. sta.....	Thamesford.....	35	132
N439 x 20	L.T. 177	Dorchester dist. sta.....	Dorchester.....	30	160
N439 x 6	L.T. 77	Dorchester dist. sta.....	Thorndale.....	35	132
N440 x 11	L.T. 134	Lucan dist. sta.....	Granton.....	30	132
N440 x 12	L.T. 130	Lucan dist. sta.....	Ailsa Craig.....	30	132
N442 x 18	L.T. 211	Ailsa Craig dist. sta.....	Parkhill.....	30	160
N443 x 74	L.T. 151	Exeter dist. sta.....	Hensall jct.....	30	132
N474 x 14	L.T. 151	Hensall jct.....	Hensall.....	30	132
N474 x 75	L.T. 159	Hensall jct.....	Sarepta jct.....	30	132
N475 x 15	L.T. 161	Sarepta jct.....	Zurich.....	30	132
N475 x 16	L.T. 160	Sarepta jct.....	Dashwood.....	30	132
a Line carried on N463 x 32, 0.09 miles, and N4 x 463, 6.50 miles, 13,200 volts, 40-ft. poles, 120-ft. span.					

OF LINES
LESS THAN 5,000 VOLTS
Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
NIAGARA DISTRICT—SYMBOL "N1"					
5.51	147*a*	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	3/13 galv. steel...	Sept. 22, 1921
3.18	140	4,000 3 ph. Y grounded.....	1/0 aluminum....	6 s-r. aluminum..	Nov. 17, 1912
1.00	39*b*	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	May 1, 1924
0.47	20	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 h-d. copper	Dec. 24, 1922
DUNDAS DISTRICT—SYMBOL "N2"					
5.98	5*a*	4,000 3 ph. Y grounded.....	6 h-d. copper.....	1/4" galv. steel....	Oct. 17, 1919
0.30	*b*	2,300 3 ph. △.....	4 d-b. w-p. copper	.....	Nov. 30, 1912
0.17	*c*	2,300 3 ph. △.....	2/0 copper.....	.....	Sept. 20, 1912
6.00	207	4,000 3 ph. Y grounded.....	4 s-r. aluminum..	1/4" galv. steel....	Feb. 18, 1924
2.10	69	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Oct. 27, 1924
TORONTO DISTRICT—SYMBOL "N3"					
7.25	.....	4,000 3 ph. Y grounded.....	4 h-d. copper....	6 galv. iron.....	1918
2.50	.....	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	1918
5.58	235	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	April 1, 1920
4.00	*a*	4,000 3 ph. Y grounded.....	1/0 copper.....	4 d-b. w-p. copper	1913
4.50	*a*	4,000 3 ph. Y grounded.....	4 d-b. w-p. copper	4 d-b. w-p. copper	1913
9.50	*a*	4,000 3 ph. Y grounded.....	{4/0 copper..... 3/0 copper..... 6 d-b. w-p. cop..	6 d-b. w-p. copper	1915
4.05	*a*	4,000 3 ph. Y grounded.....	4 d-b. w-p. copper	4 d-b. w-p. copper	1913
0.40	28	4,000 3 ph. Y grounded.....	2 copper.....	6 copper.....	1913
7.86	*a*	4,000 3 ph. Y grounded.....	2/0 copper.....	2/0 copper.....	1923
3.55	*a*	4,000 3 ph. Y grounded.....	4 h-d. copper.....	6 h-d. copper.....	1923
6.40	239	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	5/16" str. steel...	Sept. 28, 1923
LONDON DISTRICT—SYMBOL "N4"					
6.59	*a*	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Mar. 15, 1915
3.99	*b*	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Mar. 1, 1915
5.88	280	4,000 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel....	Jan. 27, 1914
2.81	91	4,000 3 ph. Y grounded.....	4 m.d-h. copper..	1/4" galv. steel....	.....
6.49	311	4,000 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel....	Feb. 6, 1914
6.09	247	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	June 29, 1916
3.57	146	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Dec. 15, 1915
9.03	325	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	May 14, 1920
1.07	.....	4,000 3 ph. Y grounded.....	{2 s-r. aluminum. 6 m.h-d. copper .	6 galv. iron.....	Dec. 21, 1916
5.12	205	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Dec. 21, 1916
7.58	265	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Aug. 25, 1917
5.17	211	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Aug. 25, 1917
1.35	56	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	1/4" galv. steel....	Aug. 25, 1916

a Line carried on Hydro Radial, 45-ft. poles, 100-ft. spans.

b Twenty-two of these poles are jointly used by H.E.P.C. and Bell Telephone Company.

c Line carried on poles of N2 x 237, 13,200 volts, 40-ft. poles, 120-ft. span.

b Line carried on N463 x 32, 0.09 miles, and N462 x 64, 3.90 miles, 13,200 volts, 40-ft. poles, 120-ft. span.

DESCRIPTION
TRANSMISSION LINES OF
(Distribution

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
			NIAGARA SYSTEM—		
N604 x 5	.....	Hespeler mun. sta.....	Christie Henderson Co..	30	160
			NIAGARA SYSTEM—		
N735 x 6	L.T. 44	Baden dist. sta.....	Wellesley.....	30	150

a Line carried on N765 x 66 and N765 x 35, 13,200 volt, for 1.40 miles, 40-ft. poles,

			NIAGARA SYSTEM—		
N834 x 4	L.T. 158	Dublin dist. sta.....	Dublin.....	30	150
N840 x 73	L.T. 178	Palmerston dist. sta.....	Moorefield jct.....	30	150
N873 x 12	L.T. 180	Moorefield jct.....	Moorefield.....	30	150
N873 x 13	L.T. 178	Moorefield jct.....	Drayton.....	30	150
N841 x 14	.....	Harriston dist. sta.....	Clifford.....	30	160
N846 x 17	.....	Walton dist. sta.....	Brussels.....	30	160
N846 x 18	.....	Walton dist. sta.....	Blythe.....	30	160

a Line carried on poles of N870 x 72, 13,200 volts, for 0.78 miles, 35-ft. poles, 132-ft. span.

			NIAGARA SYSTEM—		
N1009 x 70	L.T. 200	Tillsonburg.....	Springfield jct.....	30	160
N1070 x 10	L.T. 205	Springfield jct.....	Springfield.....		
N1034 x 13	L.T. 42	Beachville dist. sta.....	Beachville White Lime Co.....	.....	.....
N1036 x 7	L.T. 11B	Norwich dist. sta.....	Burgessville.....	30	160
N1036 x 8	L.T. 11A	Norwich dist. sta.....	Otterville.....	30	160

a Line carried on poles of N1064 x 73, 13,200 volts, for 0.83 miles, 40-ft. poles, 120-ft. span.

			NIAGARA SYSTEM—		
N1135 x 6	L.T. 154	West Lorne dist. sta....	Rodney.....	30	132

			NIAGARA SYSTEM—		
N12 x 1216	.....	Brant trans. sta.....	Brantford Sand & Gravel Co.....	30	.....
N12 x 1219	L.T. 128	Brant trans. sta.....	St. George.....	30	132
N1206 x 15	.....	Simcoe dist. sta.....	Port Dover.....	35	160
N1240 x 18	.....	Ayr dist. sta.....	H.O. Cereal Co.....	30	160
N1241 x 13	L.T. 91	Drumbo dist. sta.....	Princeton.....	35	132
N1241 x 74	L.T. 92	Drumbo dist. sta.....	Plattsville jct.....	35	132
N1274 x 12	L.T. 92	Plattsville jct.....	Plattsville.....	35	132
N1274 x 14	L.T. 184	Plattsville jct.....	Wolverton Mills.....	35	132

a Line carried on 26,400 volt poles of N12 x 1261 and N1261 x 76 for 2.27 miles, 40-ft. poles, 120-ft. span.
b Line carried on relay telephone poles N2 x 12 for 4.19 miles, 30-ft. poles, 132-ft. span.
c Line carried on 26,400 volt poles of N1275 x 67 and N1267 x 6 for 2.08 miles, 35-ft. poles, 32-ft. span.

OF LINES

LESS THAN 5,000 VOLTS—Continued

Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
PRESTON DISTRICT—SYMBOL "N6"					
3.20	111	4,000 3 ph. Y grounded.....	4 h-d. copper.....	1/4" galv. steel....	Oct. 6, 1923
KITCHENER DISTRICT—SYMBOL "N7"					
7.92	252*a*	4,000 3 ph. Y grounded.....	4 h-d. copper.....	6 galv. iron.....	Oct. 23, 1916
120-ft. spans.					
STRATFORD DISTRICT—SYMBOL "N8"					
1.26	47	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Sept. 25, 1917
7.09	237*a*	4,000 3 ph. Y grounded.....	4 m.h-d. copper..	6 galv. iron.....	Feb. 22, 1918
1.36	52	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 galv. iron.....	Feb. 22, 1918
3.54	123	4,000 3 ph. Y grounded.....	4 h-d. copper....	6 galv. iron.....	Feb. 22, 1918
6.80	234	4,000 3 ph. Y grounded.....	6 h-d. copper.....	1/4" galv. steel....	May 15, 1924
4.80	149	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	July 14, 1924
7.00	232	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	July 21, 1924
WOODSTOCK DISTRICT—SYMBOL "N10"					
12.54	418	2,300 3 ph. △ ungrounded...	6 h-d. copper....	1/4" galv. steel....	July 1, 1917
1.00	*a*	2,300 1 ph. ungrounded.....	2 s-r. aluminum..	.....	.....
3.25	115	2,300 3 ph. △ ungrounded...	6 h-d. copper....	1/4" galv. steel....	Dec. 7, 1916
4.50	158	2,300 3 ph. △ ungrounded...	6 h-d. copper....	1/4" galv. steel....	Dec. 7, 1916
ST. THOMAS DISTRICT—SYMBOL "N11"					
4.00	161	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Jan. 15, 1917
BRANT DISTRICT—SYMBOL "N12"					
2.27	3*a*	4,000 3 ph. Y grounded.....	6 h-d. copper....	sky wire used....	Jan. 15, 1922
9.19	199*b*	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Aug. 17, 1915
7.00	207*c*	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	3/13 galv. steel...	Nov. 8, 1921
1.50	21*d*	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 h-d. copper.....	Mar. 28, 1923
5.65	234	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Dec. 18, 1914
0.49	*e*	4,000 3 ph. Y grounded.....	4 h-d. copper.....	1/4" galv. steel....	Dec. 1, 1914
6.84	269	4,000 3 ph. Y grounded.....	4 h-d. copper.....	1/4" galv. steel....	Dec. 1, 1914
1.81	*f*	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	1/4" galv. steel....	Oct. 22, 1918

d Line carried on poles belonging to the Municipality of Ayr for 42 spans.
e Line carried on 26,400 volt poles of N1272 x 41 for 0.49 miles, 35-ft. poles, 132-ft. span.
f Line carried on 26,400 volt poles of N1271 x 72 for 1.81 miles, 35-ft. poles, 132-ft. span.

DESCRIPTION
TRANSMISSION LINES OF
(Distribution

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
			NIAGARA SYSTEM—		
N1305 x 6	L.T. 79A	Milton Brick Co.	Streetsville Brick Co.	30	120
N1339 x 67	L.T. 79A	Streetsville dist. sta.	Milton Brick Co. jct.	35	120
N1367 x 5	L.T. 79A	Milton Brick Co. jct.	Milton Brick Co.	35	120
N1367 x 70	L.T. 181	Milton Brick Co. jct.	W. D. Reid & Sons jct.	25	120
N1370 x 7	L.T. 181	W. D. Reid & Sons jct.	Toronto Milling Co.	25	120
N1370 x 11	L.T. 214	W. D. Reid & Sons jct.	W. D. Reid & Sons.	30	132
			NIAGARA SYSTEM—		
N1419 x 21	.....	Newbury	Wardsville	30	160
N1419 x 89	L.T. 213	Newbury	Dom. Petroleum jct.	30	160
N1489 x 20	L.T. 213	Dom. Petroleum jct.	Glencoe		
N1489 x 29	.....	Dom. Petroleum jct.	Dom. Petroleum Co.	30	160
N1432 x 3	L.T. 115	Tilbury dist. sta.	Comber	30	132
N1435 x 6	L.T. 122	Ridgetown dist. sta.	Highgate	30	120
N1438 x 19	L.T. 212	Bothwell dist. sta.	Newbury	30	160
N1443 x 14	L.T. 137	Petrolia dist. sta.	Wyoming	25	132
N1445 x 24	.....	Forest dist. sta.	Thedford	30	160
N1446 x 22	.....	Watford dist. sta.	Alvinston	35	160
N1455 x 26	.....	Fletcher dist. sta.	Merlin	30	160
N1464 x 22	.....	Blenheim	Erieau	30	160
N1417 x 28	.....	Sarnia	Courtright	30	160

a Line carried on 26,000 volt poles of N1466 x 35 for 0.43 miles and relay and telephone N11 x 14 for 5.75 miles.
b Line carried on 26,400 volt poles of N1443 x 75 for 4.89 miles and N1475 x 74 for 2.35 miles.
c Line carried on 26,400 volt poles of N1476 x 45 for 0.25 miles on 8 pin arms.

			NIAGARA SYSTEM—		
N1502 x 5	.....	Walkerville limits	Riverside	35	132
N1505 x 6	.....	Riverside	Tecumseth	.....	.....
N1506 x 7	.....	Tecumseth	St. Clair Beach	.....	.....
N1538 x 8	.....	Bell River dist. sta.	Belle River	30	132
N1545 x 19	.....	Leamington dist. sta.	Wheatley	30	160

a Line carried on poles belonging to Ford and Riverside for 3.70 miles and H.E.P.C. Railway for 0.75 miles.

			NIAGARA SYSTEM—		
N1631 x 10	.....	Etobicoke dist. sta.	Goodyear Tire & Rubber Co.	40	100
N1631 x 32	.....	Etobicoke dist. sta.	Mimico	.....	.....
N1631 x 69	.....	Etobicoke dist. sta.	Etobicoke Twp. jct.	.....	.....
N1669 x 09	.....	Etobicoke Twp. jct.	Etobicoke Twp.	.....	.....
N1669 x 67	L.T. 110A	Etobicoke Twp. jct.	Asylum jct.	30	125
N1632 x 69	L.T. 110A	Mimico dist. sta.	Etobicoke Twp. jct.	30	125
N1634 x 5	.....	Woodbridge dist. sta.	Bolton	35	132

a Line carried on 26,400 volt poles of N1666 x 31 for 1,100 feet and N1632 x 69 for 900 feet.

OF LINES

LESS THAN 5,000 VOLTS—Continued

Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
COOKSVILLE DISTRICT—SYMBOL "N13"					
0.25	12	4,000 3 ph. Y grounded	6 h-d. copper	6 galv. iron	
0.53	22	4,000 3 ph. Y grounded	6 h-d. copper	6 galv. iron	
0.77	36	4,000 3 ph. Y grounded	6 h-d. copper	6 galv. iron	Mar. 9, 1918
0.51	25	4,000 3 ph. Y grounded	6 h-d. copper	6 galv. iron	Mar. 9, 1918
0.72	33	4,000 3 ph. Y grounded	6 h-d. copper	6 galv. iron	Mar 9, 1918
0.77	36	4,000 3 ph. Y grounded	6 h-d. copper	1/4" galv. steel	Jan. 4, 1920
KENT DISTRICT—SYMBOL "N14"					
2.20	72	2,300 1 ph. grounded	6 h-d. copper		June 15, 1921
5.89	199	4,000 3 ph. Y grounded	2 s-r. aluminum	9/32" galv. steel	Aug. 13, 1920
3.00	101	4,000 3 ph. Y grounded	4 s-r. aluminum	1/4" galv. steel	Jan. 22, 1924
7.26	306	4,000 3 ph. Y grounded	2 s-r. aluminum	1/4" galv. steel	April 20, 1915
6.18	10*a*	4,000 3 ph. Y grounded	6 m.h-d. copper	6 galv. iron	Nov. 6, 1916
5.93	210	4,000 3 ph. Y grounded	2 s-r. aluminum	9/32" galv. steel	Aug. 13, 1920
7.92	26*b*	4,000 3 ph. Y grounded	6 m.h-d. copper	6 galv. iron	Oct. 4, 1916
11.50	391*c*	4,000 3 ph. Y grounded	6 h-d. copper	3/13 galv. steel	May 8, 1922
10.60	333*d*	4,000 3 ph. Y grounded	2 s-r. aluminum	3/13 galv. steel	Mar. 22, 1922
4.30	144	4,000 3 ph. Y grounded	2 s-r. aluminum	1/4" galv. steel	Dec. 22, 1922
6.75	240	2,300 1 ph. grounded	6 h-d. copper		Aug. 22, 1924
10.50	397*e*	4,000 3 ph. grounded	6 h-d. copper	5/16" galv. steel	Dec. 21, 1923

d Line carried on Watford Municipal System poles for 0.75 miles.
e Sarnia to Corunna—6.0 miles, 4,000 volts three phase; Corunna to Courtright—4.50 miles, 2,300 volts single phase.

ESSEX DISTRICT—SYMBOL "N15"

4.60	7*a*	4,000 3 ph. Y grounded	2 d-b. w-p. copper	sky wire used	Aug. 3, 1922
2.20	*b*	4,000 3 ph. Y grounded	4 d-b. w-p. copper	sky wire used	Aug. 3, 1922
1.20	*c*	2,300 1 ph. grounded	6 d-b. w-p. copper	sky wire used	Aug. 3, 1922
0.14	6	4,000 3 ph. Y grounded	6 d-b. w-p. copper	6 m.h-d. copper	Dec. 5, 1922
7.00	261	4,000 3 ph. Y grounded	6 d-b. w-p. copper	1/4" galv. steel	April 9, 1924

b Line carried on poles belonging to H.E.P.C. Railway for 2.2 miles.
c Line carried on poles belonging to Tecumseth System for 1.2 miles.

YORK DISTRICT—SYMBOL "N16"

0.13	8	2,300 3 ph. △ ungrounded	350,000 c.m. w-p. copper	None	April 21, 1922
0.40	*a*	4,000 3 ph. Y grounded	2 aluminum	1/4"galv. steel	
	b	4,000 3 ph. Y grounded	2/0 copper	None	
		4,000 3 ph. Y grounded			
0.55	21	4,000 3 ph. Y grounded	2/0 copper	1/4" galv. steel	Feb. 17, 1915
0.22	12	4,000 3 ph. Y grounded	2/0 copper	1/4" galv. steel	Feb. 17, 1915
13.50	540	4,000 3 ph. Y grounded	3/0 aluminum	1/4" galv. steel	Jan. 26, 1915

b Line carried on 26,000 volt poles of N1666 x 31 for 450 feet.

DESCRIPTION
TRANSMISSION LINES OF
(Distribution

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
			ONTARIO POWER COMPANY—		
A2 x 207	.....	Ont. Power Co. dist. sta.	N.F. Water Works cable	.....	.....
A2 x 211	.....	Ont. Power Co. dist. sta.	Queen Victoria Park (Table Rock House)	.....	.....
			GEORGIAN BAY SYSTEM—		
S10 x 1002	S. L. 10.....	Stayner dist. sta.....	Creemore	35	120
			GEORGIAN BAY SYSTEM—		
E1 x 101	E.F.L. 12	Eugenia gen. sta.....	Markdale.....	.....	.....
E1 x 102	E.F.L. 13	Eugenia gen. sta.....	Flesherton.....	.....	.....
E4 x 402	.....	Chesley dist. sta.....	Paisley.....	30	160
E7 x 702	E.F.L. 14	Durham dist. sta.....	Holstein.....	30	130
E8 x 863	E.F.L. 26	Hanover dist. sta.....	Neustadt jct.....	30	132
E863 x 2	E.F.L. 28	Neustadt jct.....	Neustadt.....	30	132
E863 x 3	E.F.L. 27	Neustadt jct.....	Carlsruhe.....	30	132
E10 x 1002	E.F.L. 18	Shelburne dist. sta.....	Hornings Mills.....	30	130
E12 x 1202	E.F.L. 21	Orangeville dist. sta.....	Alton Foundry.....	30	132
E13 x 1302	E.F.L. 22	Grand Valley dist. sta...	Arthur.....	30	120
E15 x 1502	E.F.L. 16	Kilsyth dist. sta.....	Tara.....	40	125
E24 x 2402	.....	Holyrood dist. sta.....	Lucknow.....	30	150
E24 x 2403	.....	Holyrood dist. sta.....	Ripley.....	30	150

a Line carried on 22,000 volt poles of E1 x 52 for 7.28 miles, 40-ft. poles, 125-ft. span.
c Line carried on 22,000 volt poles of E57 x 56, E56 x 59 and E57 x 57 for 8.43 miles, 40-ft.
d Line carried on 22,000 volt poles of E62 x 12 for 0.21 mile, 30-ft. poles, 130-ft. span.

			GEORGIAN BAY SYSTEM—		
W2 x 202	W.L. 4	Beaverton dist. sta.....	Gamebridge.....	.....	.....
W202 x 3	W.L. 5	Gamebridge.....	Brechin.....	.....	.....
W3 x 302	W.L. 6	Cannington dist. sta....	Woodville.....	30	120
W3 x 303	W.L. 7	Cannington dist. sta....	Sunderland.....	30	120
W6 x 602	.....	Kirkfield dist. sta.....	Kirkfield.....	.....	.....
W7 x 761	.....	Greenbank dist. sta.....	Uxbridge jct.....	30	160
W761 x 1	.....	Uxbridge jct.....	Uxbridge.....	30	160
W761 x 2	.....	Uxbridge jct.....	Port Perry.....	30	160

a Line carried on 22,000 volt poles of W56 x 52 for 5.81 miles, 40-ft. poles, 120-ft. span.
b Line carried on 22,000 volt poles of W51 x 56 for 3.93 miles, 40-ft. poles, 120-ft. span.

OF LINES

LESS THAN 5,000 VOLTS—Continued

Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
SYMBOL "A"					
.....	.....	2,200 (2-circuits).....	.....	.....	.....
.....	.....	2,200.....	.....	.....	.....
SEVERN DIVISION—SYMBOL "S"					
7.68	347	4,000 3 ph. Y grounded.....	1/0 aluminum....	1/4" galv. steel....	Aug. 21, 1914
EUGENIA DIVISION—SYMBOL "E"					
7.28	*a*	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	.....	Feb. 8, 1916
6.78	*b*	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	.....	Nov. 18, 1915
10.70	362	4,000 3 ph. Y grounded.....	4 s-r. aluminum...	1/4" galv.....	Aug. 13, 1923
2.63	96*c*	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv.....	April 3, 1916
2.73	161	4,000 3 ph. Y grounded.....	3/0 aluminum....	6 galv. iron.....	Dec. 12, 1917
2.36	96	4,000 3 ph. Y grounded.....	3/0 aluminum....	6 galv. iron.....	Nov. 17, 1918
1.22	57	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Nov. 17, 1918
5.53	234	4,000 3 ph. Y grounded.....	4 m.h-d. copper..	10 galv. iron.....	Built by P.R. Duval Co.
5.75	249*d*	4,000 3 ph. Y grounded.....	4 m.h-d. copper..	6 galv. iron.....	Nov. 27, 1916
12.36	531	4,000 3 ph. Y grounded.....	4 m.h-d. copper..	6 galv. iron.....	Feb. 19, 1917
6.80	291	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	1/4" galv. steel....	Jan. 1, 1918
4.76	170	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Jan. 11, 1921
6.14	218	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Jan. 12, 1921

b Line carried on 22,000 volt poles of E1 x 55 for 6.78 miles, 40-ft. poles, 125-ft. span. poles, 125-ft. span.

WASDELLS DIVISION—SYMBOL "W"

5.81	*a*	4,000 3 ph. Y grounded.....	1/0 aluminum....	sky wire used....	Oct. 6, 1914
3.93	*b*	4,000 3 ph. Y grounded.....	1/0 aluminum....	sky wire used....	Oct. 6, 1914
5.15	148*c*	4,000 3 ph. Y grounded.....	1/0 aluminum....	1/4" galv. steel....	Oct. 19, 1914
7.40	335	4,000 3 ph. Y grounded.....	1/0 aluminum....	1/4" galv. steel....	Oct. 19, 1914
1.01	*d*	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	5/16" galv. steel..	June 18, 1920
5.75	208	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Sept. 29, 1922
4.00	139	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Sept. 29, 1922
1.75	76	4,000 3 ph. Y grounded.....	2/0 s-r. aluminum.	1/4" galv. steel....	Sept. 29, 1922

c Line carried on 22,000 volt poles of W53 x 3 for 1.86 miles, 40-ft. poles, 120-ft. span.
d Line carried on 22,000 volt poles of W56 x 6 for 1.01 miles, 35-ft. poles, 150-ft. span.

DESCRIPTION

TRANSMISSION LINES OF

(Distribution

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
			ST. LAWRENCE SYSTEM—		
L6 x 601	.....	Tor. Paper Co. dist. sta.	Howard Smith Paper Mills.....	.....	.....
L10 x 701	St. L. 6	Morrisburg met. sta.....	Williamsburg.....	.....	.....
L13 x 1302	.....	Martintown dist. sta....	Lancaster.....	30	160
L14 x 1462	.....	Apple Hill dist. sta.....	Avonmore jct.....	30	.....
L1462 x 63	.....	Avonmore jct.....	Dominionville jct.....	30	.....
L1463 x 3	.....	Dominionville jct.....	Maxville.....	45	325
			RIDEAU SYSTEM—		
H8 x 801	.....	Balderson dist. sta.....	Lanark.....	30	160
			CENTRAL ONTARIO SYSTEM—		
C11 x 1101	.....	Seymour gen. sta.....	Co.'s at Campbellford...	30	132
C12 x 11	.....	Campbellford mun. sta..	Seymour gen. sta.....	30	132
C17 x 18	.....	Peter hydraulic.....	Auburn gen. sta.....	.....	.....
C22 x 2201	.....	Newcastle dist. sta.....	Newcastle.....	35	132
C2201 x 2	.....	Newcastle.....	Orono.....	30	132
C24 x 2402	.....	Oshawa trans. sta.....	Whitby.....	30	132
C26 x 2601	.....	Omemee trans. sta.....	Omemee.....	30	132
C31 x 3102	.....	Norwood trans. sta.....	Havelock.....	30	150
C33 x 3307	.....	Madoc trans. sta.....	Gillespie Talc. Mills....	30	132
C33 x 3363	.....	Madoc trans. sta.....	Cross & Wellington jct..	30	132
C3363 x 3	.....	Cross & Wellington jct..	Cross & Wellington.....	30	132
C3363 x 65	.....	Cross & Wellington jct..	Gillespie Talc. Mine jct..	.....	.....
C3365 x 5	.....	Gillespie Talc. Mine jct..	Gillespie Talc. Mine	.....	.....
C3365 x 6	.....	Gillespie Talc. Mine jct..	Asbestos Pulp Co.....	.....	.....
C34 x 3402	.....	Sulphide trans. sta.....	Tweed.....	30	132
C43 x 4302	.....	Napanee trans. sta.....	Newburgh.....	30	132
C45 x 4502	.....	Wellington trans. sta....	Bloomfield.....	.....	.....
C49 x 4901	.....	Warkworth trans. sta...	Warkworth.....	30	160

a Line carried on 6,600 volt poles of C18 x 20, 30-50-ft. poles, 100-ft. span.
b Poles owned by Cross & Wellington, conductor owned by H.E.P.C.

			NIPISSING SYSTEM—		
Z1 x 101	.....	Nipissing gen. sta.....	Nipissing.....	28	126

OF LINES

LESS THAN 5,000 VOLTS—Concluded

Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
SYMBOL "L"					
.....	.....	600 3 ph. △ ungrounded....	.....	Nil.....	.....
6.57	1	2,300 1 ph. ungrounded.....	6 m.h-d. copper..	.....	Mar. 20, 1915
11.59	399	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	May 25, 1921
1.04	18	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	sky wire used....	Feb. 22, 1921
0.58	8	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	sky wire used....	Feb. 22, 1921
5.17	94	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	5/16" galv. steel..	Feb. 22, 1921
SYMBOL "H"					
4.97	171	2,400 1 ph. grounded.....	2 s-r. aluminum..	None.....	Sept. 29, 1921
SYMBOL "C"					
1.25	50	2,400 3 ph. △ ungrounded...	4/0 aluminum....	9/32" galv. steel..	1912
1.20	50	2,400 3 ph. △ ungrounded...	4/0 aluminum....	.....	1910
2.00	*a*	2,400 3 ph. △ ungrounded...	1/0 copper.....	.....	1902 rebuilt 1918
1.00	40	2,400 1 ph. ungrounded.....	4 w-p. copper....	.....	1911
5.00	120	2,400 1 ph. ungrounded.....	2 aluminum.....	.....	1912
4.00	175	4,160 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel. ..	1912
1.00	40	4,160 3 ph. Y grounded.....	6 w-p. copper....	9/32" galv. steel..	1917
6.62	259	4,160 3 ph. Y grounded.....	2 s-r. aluminum..	4x12 galv. steel...	1921
1.00	50	4,160 3 ph. Y grounded.....	4 c-c. steel.....	.....	1914
0.80	32*b*	4,160 3 ph. Y grounded.....	1 copper.....	1/4" galv. steel....	1911
1.50	60*b*	4,160 3 ph. Y grounded.....	2 copper.....	1/4" galv. steel....	1917
1.25	*c*	4,160 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel.. .	1918
0.10	*c*	4,160 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel....	1914
0.20	*c*	4,160 3 ph. Y grounded.....	6 copper.....	1/4" galv. steel....	1916
6.00	240	4,160 3 ph. Y grounded.....	2/0 aluminum....	9/32" galv. steel..	1912
7.92	328	4,160 3 ph. Y grounded.....	2 copper	6 galv. iron.....	1917
6.53	*d*	4,160 3 ph. Y grounded.....	2 s-r. aluminum..	.....	1919
3.50	120	2,400 1 ph. grounded.....	6 copper.....	.....	Sept. 29, 1913

c Privately owned.
d Line carried on 44,000 volt poles of C45 x 46, 40-ft. poles, 176-ft. span.

SYMBOL "Z"

2.50	128	2,200 1 ph. ungrounded.....	6 w-p. copper....	None.....	1911

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